

NOTES: THIS DESIGN IS LOOSELY BASED ON A DESIGN WHICH A FOUND IN A DUTCH MAGAZINE AND THE DRAWINGS WERE MADE BY WvS DATED 2015

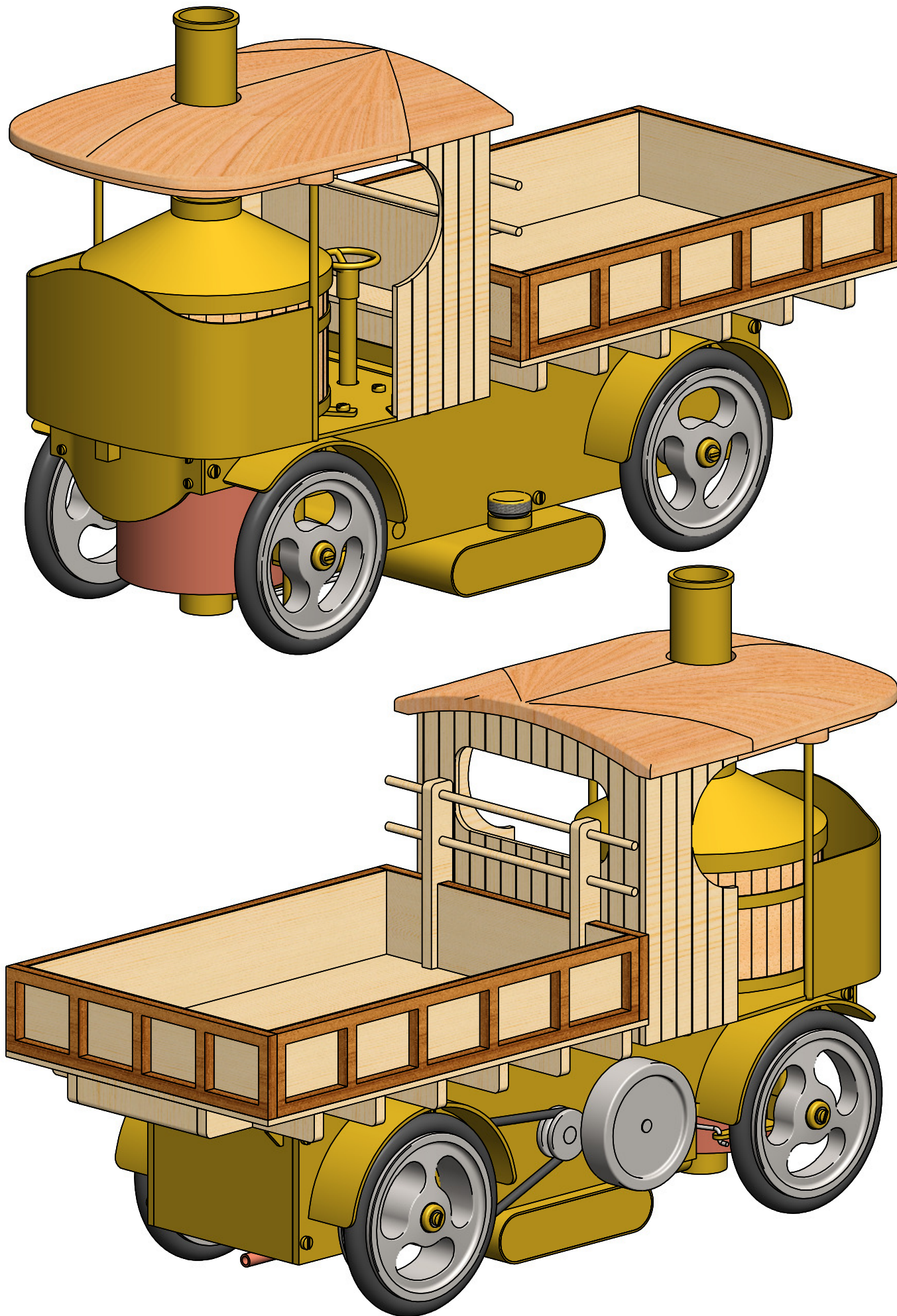
TITLE
WORKING MODEL OF A STEAM DRIVEN LORRY

DRAWING CONTENTS
GENERAL ARRANGEMENT

PROJECT No 08-09-00
JDW DRAUGHTING SERVICES
J.A.M. DE WAAL, 12 BRIGHTWELL STREET PAPAOKURA 2110.
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PROJECTION
DATE
MAY-2016
SHEET: 01 OF 06

MODEL SCALE: 1:1
DWG SCALE: 1:1 @A3 OR AS SHOWN
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A3 No: LORRY-01



QTY.	PART NUMBER
1	LORRY-01-RH-FRAME PLATE
1	LORRY-02-LH-FRAME PLATE
1	LORRY-03-REAR PLATE
2	LORRY-04-REAR HINGE PLATE
1	LORRY-05-REAR WHEEL SPLASH BOARD
1	LORRY-05-REAR WHEEL SPLASH BOARD
1	LORRY-06-FRONT WHEEL SPLASH BOARD
1	LORRY-06-FRONT WHEEL SPLASH BOARD
1	LORRY-07-MID FRAME STRECHTER
1	LORRY-08-FRONT SKIRT
2	LORRY-09-STEERING BEARING BLOCK
1	LORRY-10-FUEL TANK
1	LORRY-11-BURNER
1	LORRY-12-FUEL TANK FILLER CAP
1	LORRY-13-CABIN FLOOR
1	LORRY-14-BOILER SHELL
1	LORRY-15-BOILER TOP PLATE
1	LORRY-16-BOILER BOTTOM PLATE
1	LORRY-17-BOILER FOUNDATION RING
1	LORRY-18-FIRE BOX SHELL
5	LORRY-19-FLAME PIPE
4	LORRY-20-BOILER MOUNTING BRACKET
44	LORRY-21-BOILER GLADDING PLANK
2	LORRY-22-BOILER GLADDING STRAP
1	LORRY-23-BOILER TOP PLATE BUSH
1	LORRY-24-STEAM DOME SCREW
1	LORRY-25-BOILER TOP+CHIMNEY
1	LORRY-26-STEAM DELIVERY PIPE
1	LORRY-27-RH-FRONT WHEEL STEERING AXLE
1	LORRY-28-LH-FRONT WHEEL STEERING AXLE
1	LORRY-29-STEERING CROSS TRACK ROD
1	LORRY-30-STEERING WHEEL
1	LORRY-31-STEERING WHEEL SPINDLE
1	LORRY-32-STEERING GEAR WHEEL
1	LORRY-33-STEERING WHEEL LINKAGE
2	LORRY-34-FRONT WHEEL
4	LORRY-35-WHEEL HUB
1	LORRY-36-REAR WHEEL-1
1	LORRY-37-REAR WHEEL-2
1	LORRY-38-REAR WHEEL AXLE
1	LORRY-39-ENGINE BASE PLATE
1	LORRY-40-ENGINE PORT BLOCK
1	LORRY-41-ENGINE PORT BLOCK GASKET
1	LORRY-42-ENGINE CYLINDER BASE
1	LORRY-43-CYLINDER
1	LORRY-44-CYLINDER TOP COVER
1	LORRY-45-CYLINDER BOTTOM COVER
1	LORRY-46-CYLINDER PIVOT SHAFT
1	LORRY-47-CYLINDER PIVOT SHAFT SPRING
1	LORRY-48-CRANK PLATE
1	LORRY-49-CRANK SHAFT
1	LORRY-50-CRANK SHAFT GEAR WHEEL
1	LORRY-51-FLYWHEEL
1	LORRY-52-GR WHL CTL MOUNTING BLOCK
1	LORRY-53-GR WHL CTL LEVER
1	LORRY-54-PSTON
1	LORRY-55-PISTON ROD

QTY.	PART NUMBER
1	LORRY-56-PISTON ROD END BEARING
1	LORRY-57-IDLER SHAFT
1	LORRY-58-IDLER SHAFT GEAR WHEEL
1	LORRY-59-IDLER SHAFT PULLEY
1	LORRY-60-DRIVE BELT
1	LORRY-61-CABIN FRONT PLATE
1	LORRY-62-CABIN FLOOR ANGLE
1	LORRY-63-CABIN REAR+SIDE WALLS
1	LORRY-64-CABIN ROOF
1	LORRY-65-LOADING BAY UNDER FRAME
1	LORRY-66-LOADING BAY FLOOR
1	LORRY-67-LOADING BAY REAR WALL
1	LORRY-68-LOADING BAY FRONT WALL
2	LORRY-69-LOADING BAY SIDE WALL
1	LORRY-70-LOADING BAY HINGE BAR
1	LORRY-M2x4 PAN HEAD SCREW
15	LORRY-M3 NUT
2	LORRY-M3 WASHER
4	LORRY-M3x6.5 PAN HEAD SCREW
17	LORRY-M3x10 PAN HEAD SCREW
3	LORRY-M3x14 PAN HEAD SCREW
13	LORRY-M4 NUT
4	LORRY-M4 WASHER
2	LORRY-M4x6 PAN HEAD SCREW
6	LORRY-M4x8 PAN HEAD SCREW
4	LORRY-M4x10 C-SINK SCREW
7	LORRY-M4x10 PAN HEAD SCREW
9	LORRY-M4x12 PAN HEAD SCREW
5	LORRY-M4x18 PAN HEAD SCREW

MATERIAL ABBREVIATIONS:
 ALU = ALUMINIUM OR DURAL(MIN)
 BRS = BRASS
 BRZ = BRONZE OR GUNMETAL (BRZ/GM)
 CI = CAST IRON
 CU = COPPER
 GRA = GRAPHITE
 MS = MILD STEEL/BRIGHT MILD STEEL
 S/S = SILVER STEEL OR STAINLESS STEEL
 SPS = SPRING STEEL
 PEEK= POLYETHER ETHER KETONE
 SYN = SYNTHETIC MATERIAL SUCH AS VETON, NYLON, TEFLON OR RUBBER
 IN GENERAL SYNTHETIC MATERIALS SHOULD BE ABLE TO WITHSTAND THE HEAT AND PRESSURE(S) APPLIED TO THEM.
 nnn/nnn MEANS THAT EITHER MATERIAL CAN BE USED

OTHER ABBREVIATIONS
 DP = DEEP
 PF = PRESS FIT
 PCD = PITCH CIRCLE DIAMETER
 RM = REAM
 HEX = HEXACON, 6SIDED
 CP = COMPRESSED
 KNL = KNURLED
 CSK = COUNTERSINK
 PL = PLACES
 CF = CLOSE FIT (SIZE FOR SIZE)
 DAA= DRILL AFTER ASSEMBLY
 PFAA= PRESSFIT AFTER ASSEMBLY
 LCT = USE LOCTITE
 LPF = LIGHT PRESS FIT
 [SA-xxx]= SUB ASSEMBLY-xxx

NOTES:
 0. ALL DRAWINGS ARE IN IMPERIAL MEASUREMENTS
 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 IMPERIAL FINE.
 4. MATERIALS SPECIFIED ON THE DRAWINGS ARE INDICATIVE ONLY. THE BUILDER CAN MAKE HIS/HER OWN MATERIAL CHOICE.
 5. INQUIRE AT THE APPROPRIATE AUTHORITIES 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 PREFERRED SCREW OR RIVETED CONNECTIONS CAN BE OMITTED AND PARTS CAN BE BONDED TOGETHER BY USING EITHER HIGH STRENGTH GLUE, EPOXY RESIN, OR SOLDER.
 9. PARTS WHICH ARE DIRECTLY EXPOSED TO STEAM AND/OR WATER SHOULD BE CONSTRUCTED USING NON-FERROUS OR NON CORROSIVE MATERIAL SUCH AS BRASS, BRONZE, GUNMETAL, STAINLESS STEEL, COPPER OR MONEL.
 10. THE ORDER IN WHICH THE PARTS/COMPONENTS ARE MANUFACTURED AND THE MODEL IS ASSEMBLED IS ENTIRELY LEFT TO THE BUILDER/MODEL MAKER.
 11. A COLOUR SCHEME FOR THIS PROJECT IS ENTIRELY LEFT UP TO THE MODEL MAKER.
 12. THE MANNER IN WHICH THE PARTS/COMPONENTS ARE MANUFACTURED IS ENTIRELY LEFT UP TO THE BUILDER.
 13. N/A
 14. ERRORS AND/OR OMISSIONS MAY OCCUR IN THE DRAWINGS, DO NOT HESITATE TO CONTACT ME SO THAT THE ERRORS/OMISSIONS CAN BE RECTIFIED.

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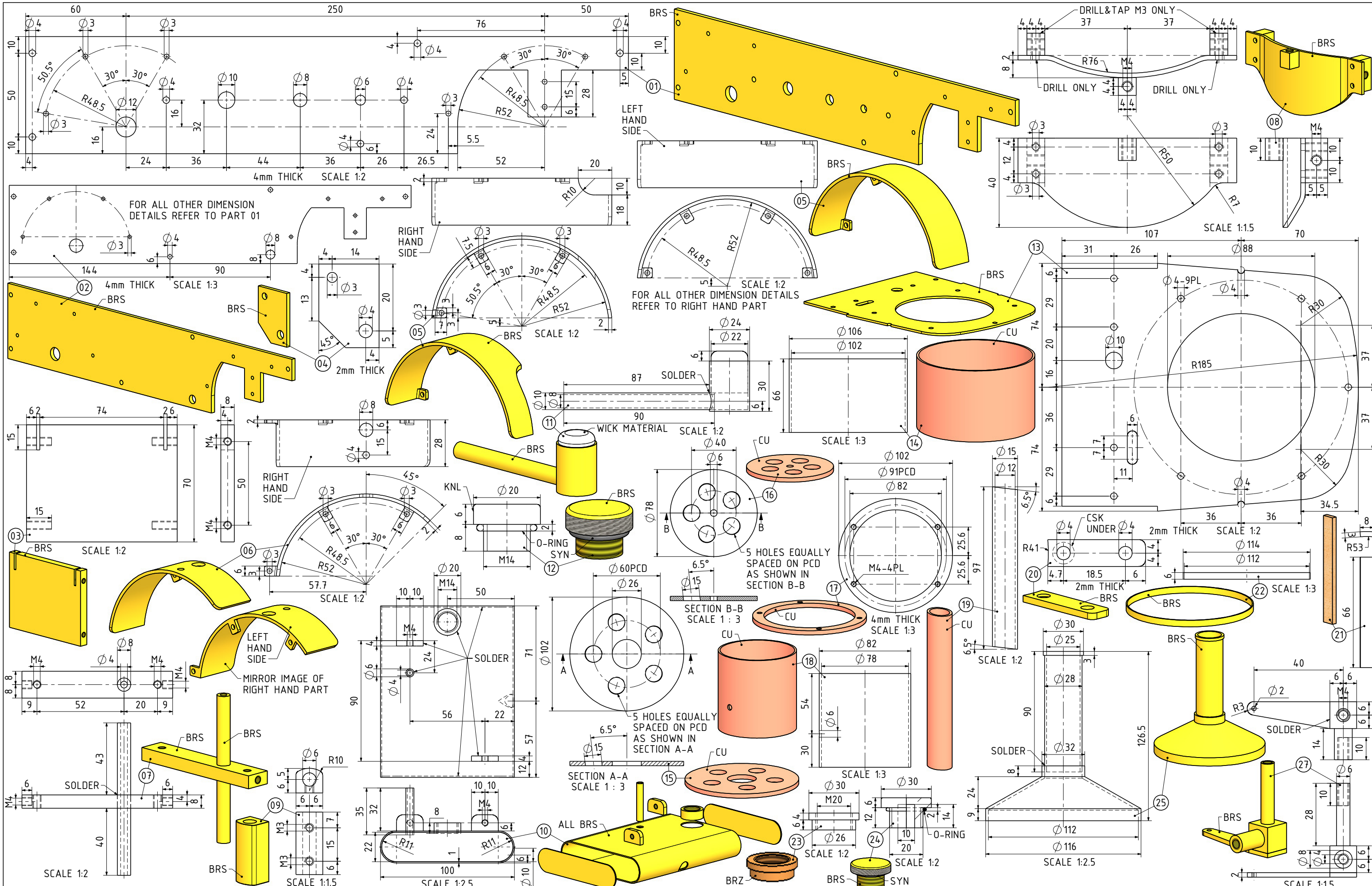
DRAWING CONTENTS
ISOMETRIC VIEWS, NOTES AND BILL OF MATERIALS

PROJECT No 08-09-00
JDW DRAUGHTING SERVICES
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PROJECTION

JDWDS
 DATE MAY-2016

MODEL SCALE: 1:1
 DWG SCALE: 1:1 @A3 OR AS SHOWN
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SHEET: 02 OF 06 **A3** No: LORRY-02



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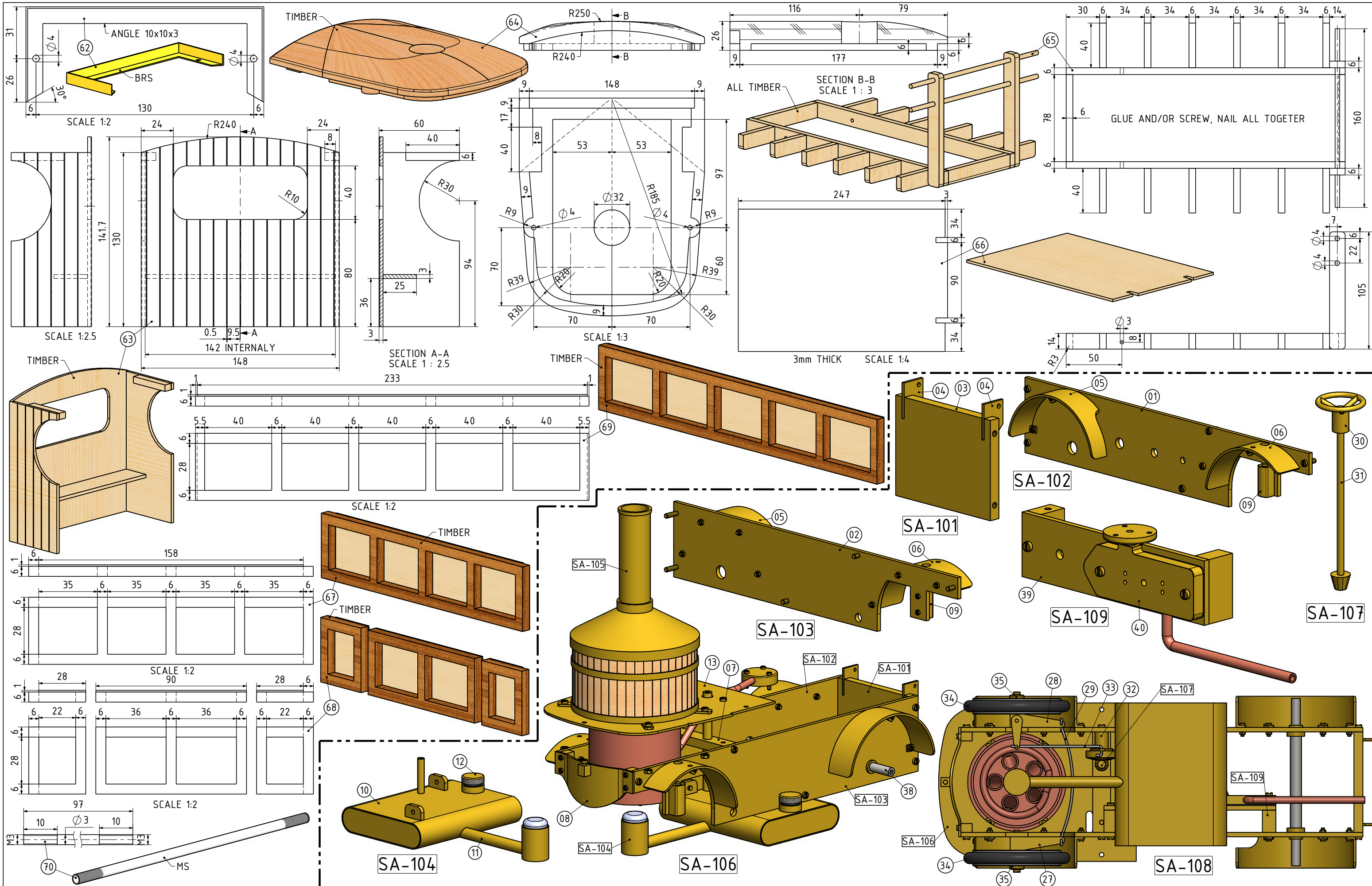
TITLE
WORKING MODEL OF A STEAM DRIVEN LORRY PARTS AND ASSEMBLIES

DRAWING CONTENTS

PROJECT No 08-09-00
 JDW DRAUGHTING SERVICES
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PROJECTION
JDWDS
 DATE MAY-2016

MODEL SCALE: 1:1
 DWG SCALE: 1:1 @A3 OR AS SHOWN
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A3 No: LORRY-03
 SHEET: 03 OF 06



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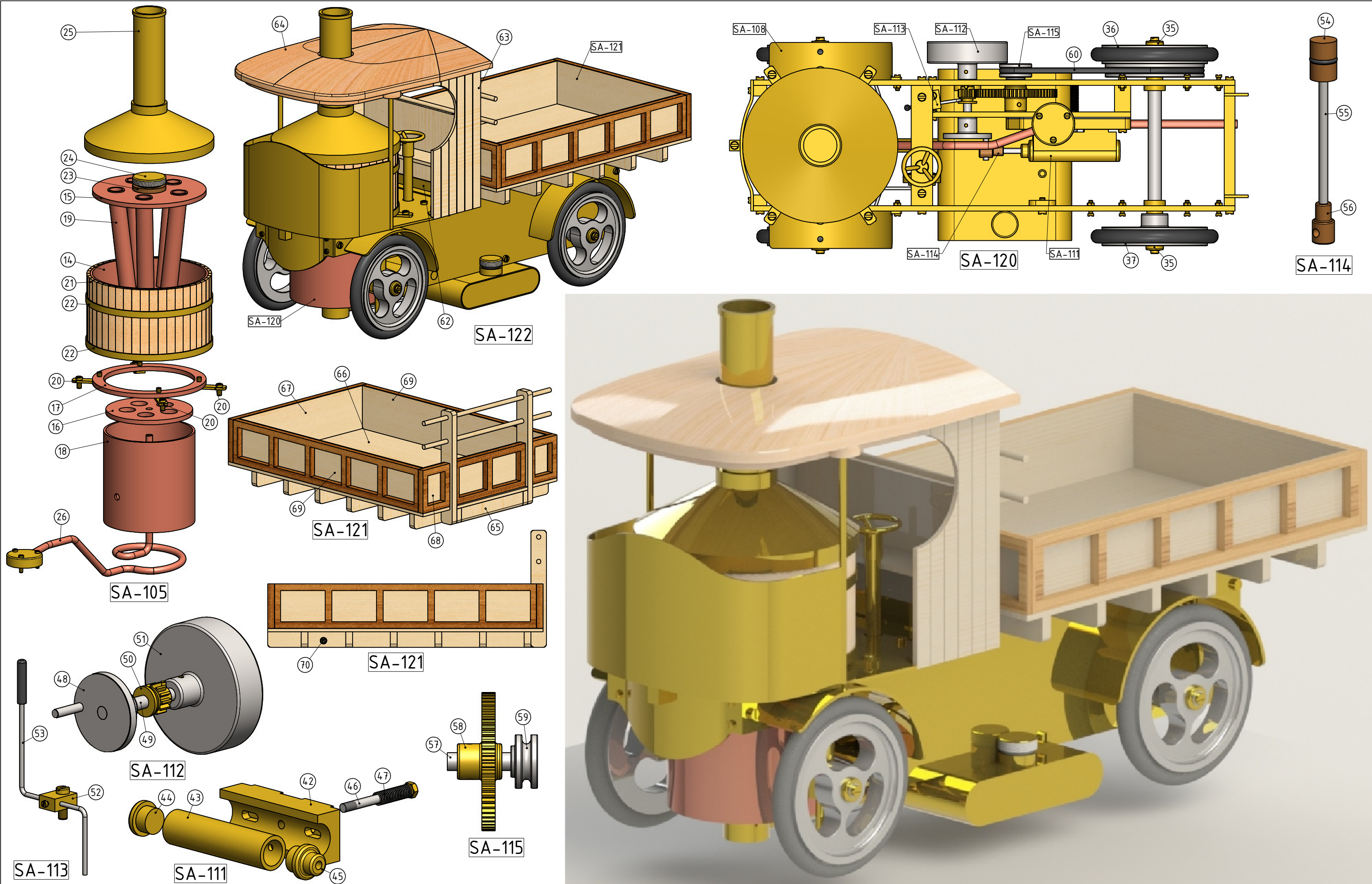
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DRAWING CONTENTS

PROJECT No 08-09-00
 JDW DRAUGHTING SERVICES
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PROJECTION
JDWDS
 DATE MAY-2016

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 SHEET: 05 OF 06 **A3** No: LORRY-05



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TITLE
WORKING MODEL OF A STEAM DRIVEN LORRY

DRAWING CONTENTS
PARTS AND ASSEMBLIES AND
RENDERED PICTURE

PROJECT No 08-09-00
JDW DRAUGHTING SERVICES
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PROJECTION
DATE
MAY-2016
SHEET: 06 OF 06

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DWG SCALE: 1:1 @A3 OR AS SHOWN
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A3 No: LORRY-06