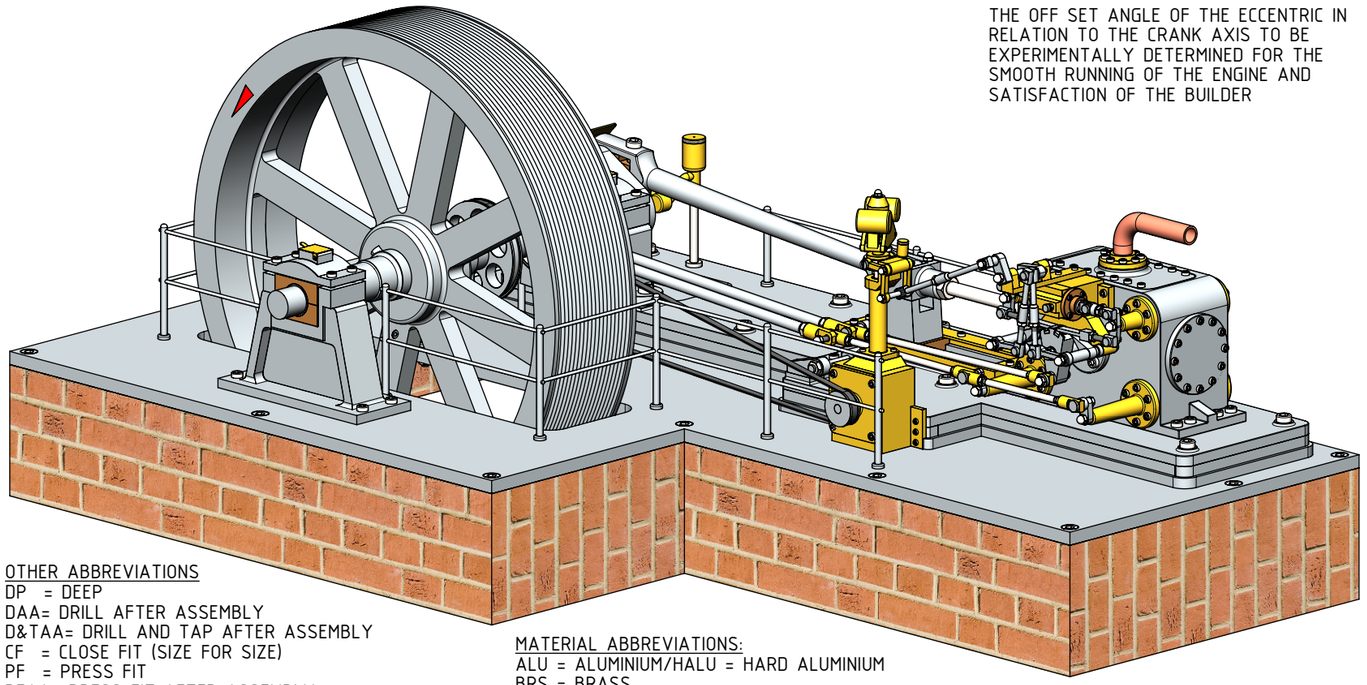
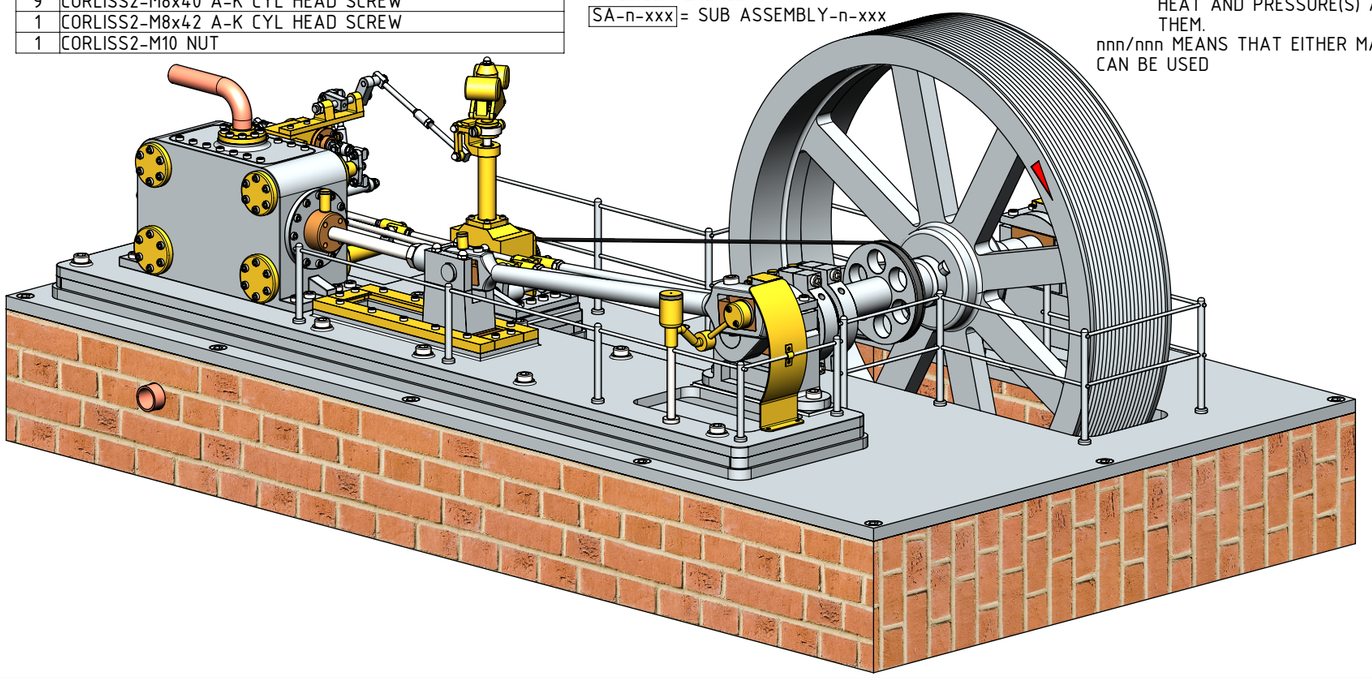
QTY.	PART NUMBER
1	CORLISS2-1-01-BRICK BASE
1	CORLISS2-1-02-OUTER END BEARING STAND
2	CORLISS2-1-03-OUTER END BEARING CAP
2	CORLISS2-1-04-OUTER END BEARING LID
4	CORLISS2-1-05-OUTER END BOTTOM BEARING
2	CORLISS2-1-06-OUTER END TOP BEARING
1	CORLISS2-1-07-ENGINE BED PLATE
1	CORLISS2-1-08-INNER BEARING STAND
2	CORLISS2-1-09-CROSSHEAD SIDE GUIDE
2	CORLISS2-1-10-CROSSHEAD HEAD GUIDE
1	CORLISS2-1-11-FULCRUM BRACKET
1	CORLISS2-1-12-CYLINDER BLOCK
1	CORLISS2-1-13-CYLINDER LINER
1	CORLISS2-1-14-CYLINDER TOP STEAM iNLET COVER
1	CORLISS2-1-15-CYLINDER BOTTOM OUTLET COVER
1	CORLISS2-1-16-CYLINDER FRONT COVER
1	CORLISS2-1-17-CYLINDER REAR COVER
1	CORLISS2-1-18-GOVERNOR GEAR HOUSING
1	CORLISS2-1-19-GOVERNOR HOUSING COVER
1	CORLISS2-1-20-GOVERNOR COLUMN
2	CORLISS2-1-21-CYLINDER STEAM VALVE COVER
2	CORLISS2-1-22-CYLINDER EXHAUST VALVE COVER
2	CORLISS2-1-23-CYLINDER STEAM VALVE BONNET
2	CORLISS2-1-24-CYLINDER EXHAUST VALVE BONNET
1	CORLISS2-1-25-CYLINDER DASHPOT CONTROL UNIT
2	CORLISS2-1-26-DASHPOT COVER
2	CORLISS2-1-27-DASHPOT VENT SCREW
1	CORLISS2-1-28-STEAM LEVER TRUNNION
1	CORLISS2-1-29-CRANKPIN OILER
4	CORLISS2-1-30-BED PLATE HANDRAIL STANCHION TYPE-1
1	CORLISS2-1-31-BED PLATE HANDRAIL STANCHION TYPE-2
1	CORLISS2-1-32-BED PLATE HAND RAIL TYPE-1
1	CORLISS2-1-33-BED PLATE HAND RAIL TYPE-2
5	CORLISS2-1-34-FLYWHEEL HANDRAIL STANCHION TYPE-1
5	CORLISS2-1-35-FLYWHEEL HANDRAIL STANCHION TYPE-2
4	CORLISS2-1-36-FLYWHEEL HAND RAIL TYPE-1
2	CORLISS2-1-36-FLYWHEEL HAND RAIL TYPE-1
2	CORLISS2-1-37-FLYWHEEL HAND RAIL TYPE-2
4	CORLISS2-1-38-FLYWHEEL HAND RAIL TYPE-3
2	CORLISS2-1-39-FLYWHEEL HAND RAIL TYPE-4
1	CORLISS2-1-40-PISTON ROD OILER
1	CORLISS2-1-41-CRANK SPLASHER
1	CORLISS2-1-42-STEAM INLET PIPE
1	CORLISS2-1-43-STEAM EXHAUST PIPE
1	CORLISS2-2-01-CRANKSHAFT
1	CORLISS2-2-02-FLYWHEEL
1	CORLISS2-2-03-BANJO OILER
1	CORLISS2-2-04-PISTON+ROD
1	CORLISS2-2-05-SLIPPER CROSSHEAD
2	CORLISS2-2-06-CRANKSHAFT OIL RING
1	CORLISS2-2-07-CON-ROD
1	CORLISS2-2-08-CON-ROD OILER
2	CORLISS2-2-09A-EXHAUST VALVE
2	CORLISS2-2-09B-EXHAUST VALVE LEVER
2	CORLISS2-2-10A-STEAM INLET VALVE
2	CORLISS2-2-10B-STEAM INLET VALVE LEVER
2	CORLISS2-2-11-ECCENTRIC
2	CORLISS2-2-12-ECCENTRIC STRAP
2	CORLISS2-2-13-ECCENTRIC STRAP OILER
2	CORLISS2-2-14-SINGLE ARM VALVE ROCKER
1	CORLISS2-2-15-EXHAUST VALVE COUPLING ROD-1
1	CORLISS2-2-16-EXHAUST VALVE COUPLING ROD-2
1	CORLISS2-2-17-INLET STEAM LEVER
1	CORLISS2-2-18-INLET STEAM LEVER COUPLING ROD
1	CORLISS2-2-19-ROCKER ARM SPACER+BOLT
1	CORLISS2-2-20-ROCKER ARM BOLT
2	CORLISS2-2-21-DASHPOT PISTON
1	CORLISS2-2-22-REAR EXCHAUST LEVER BOLT
1	CORLISS2-2-23-FRONT EXHAUST LEVER SPACER+BOLT
2	CORLISS2-2-24-INLET VALVE TOP LINK ROD
2	CORLISS2-2-25-TRIP BLADE
2	CORLISS2-2-26-TRIP DIE
1	CORLISS2-2-27A-REAR CAM LEVER+SLEEVE+TRIP CAM
1	CORLISS2-2-27B-FRONT CAM LEVER+SLEEVE+TRIP CAM
1	CORLISS2-2-28-TRIP CONTROL LEVER

QTY.	PART NUMBER
1	CORLISS2-2-29-TRIP LINK
1	CORLISS2-2-29-TRIP LINK
1	CORLISS2-2-30-DASHPOT SPRING
1	CORLISS2-2-31-GVNR SPINDLE+GEAR+HEAD
1	CORLISS2-2-32-GVNR LARGE GEAR+SHAFT+PULLEY
1	CORLISS2-2-33-GVNR MOVABLE SLEEVE
2	CORLISS2-2-34-GVNR FLYWEIGHT+LEVER
1	CORLISS2-2-35-GVNR PRESSURE SPRING
1	CORLISS2-2-36-GVNR LEVERS+SHAFT
1	CORLISS2-2-37-GVNR GLUT COLLAR
1	CORLISS2-2-38-GVNR CONTROL LINKAGE
1	CORLISS2-2-39-CRANKSHAFT PULLEY
1	CORLISS2-2-40-GVNR DRIVE BELT
2	CORLISS2-M2.5x8 A-K C-SINK SCREW
6	CORLISS2-M3 DOME NUT
9	CORLISS2-M3 NUT
10	CORLISS2-M3 WASHER
14	CORLISS2-M3x10 A-K CYL HEAD SCREW
6	CORLISS2-M3x14 A-K CYL HEAD SCREW
2	CORLISS2-M3x18 A-K CYL HEAD SCREW
15	CORLISS2-M4 DOME NUT
20	CORLISS2-M4 NUT
4	CORLISS2-M4 WASHER
52	CORLISS2-M4x10 A-K CYL HEAD SCREW
44	CORLISS2-M4x14 A-K CYL HEAD SCREW
4	CORLISS2-M4x18 A-K C-SINK SCREW
42	CORLISS2-M4x20 A-K CYL HEAD SCREW
1	CORLISS2-M4x22 A-K GRUB SCREW
4	CORLISS2-M4x38 THREADED ROD
1	CORLISS2-M5 DOME NUT
16	CORLISS2-M5 NUT
1	CORLISS2-M5 WASHER
4	CORLISS2-M5x12 A-K GRUB SCREW
4	CORLISS2-M5x14 A-K CYL HEAD SCREW
12	CORLISS2-M5x20 A-K CYL HEAD SCREW
1	CORLISS2-M5x32 A-K CYL HEAD SCREW
8	CORLISS2-M6 NUT
12	CORLISS2-M6x14 A-K CYL HEAD SCREW
4	CORLISS2-M6x20 A-K CYL HEAD SCREW
4	CORLISS2-M6x36 A-K CYL HEAD SCREW
1	CORLISS2-M8 DOME NUT
1	CORLISS2-M8 NUT
2	CORLISS2-M8x20 A-K CYL HEAD SCREW
13	CORLISS2-M8x25 A-K C-SINK SCREW
9	CORLISS2-M8x40 A-K CYL HEAD SCREW
1	CORLISS2-M8x42 A-K CYL HEAD SCREW
1	CORLISS2-M10 NUT



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

OTHER ABBREVIATIONS
DP = DEEP
DAA= DRILL AFTER ASSEMBLY
D&TAA= DRILL AND TAP AFTER ASSEMBLY
CF = CLOSE FIT (SIZE FOR SIZE)
PF = PRESS FIT
PFAA= PRESS FIT AFTER ASSEMBLY
PCD = PITCH CIRCLE DIAMETER
RM = REAM
HEX = HEXACON, 6SIDED
CP = COMPRESSED
KNL = KNURLED
CSK = COUNTERSINK
PL = PLACES
DWL= DOWEL
(T)HESOP=(TAPPED)HOLES EQUALLY SPACED ON PCD
(T)HESOC=(TAPPED)HOLES EQUALLY SPACED ON CIRCUMFERENCE
SA-n-xxx = SUB ASSEMBLY-n-xxx



MATERIAL ABBREVIATIONS:
ALU = ALUMINIUM/HALU = HARD ALUMINIUM
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 SOULD BE ABLE TO WITHSTAND THE HEAT AND PRESSURE(S) APPLIED TO THEM.
nnn/nnn MEANS THAT EITHER MATERIAL CAN BE USED

NOTES:
0. ALL DRAWINGS ARE IN METRIC 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 METRIC FINE (MF)
4. MATERIALS SPECIFIED ON THE DRAWINGS ARE INDICATIVE ONLY. THE BUILDER CAN MAKE HIS/HER OWN MATERIAL CHOICE.
5. ALL CONNECTIONS/JOINTS WHICH HAVE STEAM PRESSURE APPLIED TO IT SHALL BE SILVER/HARD SOLDERED.
6. COMPRESSION SPRINGS ARE DRAWN IN COMPRESSED STATE (CP), UNCOMPRESSED STATE IS APPROX 40% TO 60% LONGER THEN COMPRESSED STATE.
7. 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.
8. 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.
9. THE ORDER IN WHICH THE PARTS/COMPONENTS ARE MANUFACTURED AND THE MODEL IS ASSEMBLED IS ENTIRELY LEFT TO THE BUILDER/MODEL MAKER.
10. A COLOUR SCHEME FOR THIS PROJECT IS ENTIRELY LEFT UP TO THE MODEL MAKER.
11. THE MANNER IN WHICH THE PARTS/COMPONENTS ARE MANUFACTURED IS ENTIRELY LEFT UP TO THE BUILDER.
12. USE LOCTITE, ON SCREW OR PRESS FIT CONNECTIONS OR SURFACES, WERE DEEMED NECESSARY TO PREVENT PARTS FROM LOOSENING.
13. WASHER SHALL BE USED WHERE DEEMED NECESSARY.
14. N/A
XX. ERRORS AND/OR OMISSIONS MAY OCCUR IN THE DRAWINGS, DO NOT HESITATE TO CONTACT ME SO THAT THE ERRORS/OMISSIONS CAN BE RECTIFIED.

NOTES: THE ORIGINAL DRAWINGS WERE GIVEN TO ME. THE ORIGINAL DRAWINGS AND ACCOMPANIED ARTICLE WERE PUBLISHED IN THE "MODEL ENGINEER MAGAZINE DATED 20 AUGUST 1982 UNDER TITLE "A MODEL CONDENSING CORLISS ENGINE" BY ARNOLD THROP.

TITLE
1 CYLINDER HORIZONTAL HIGH PRESSURE STEAM ENGINE OF THE "CORLISS" TYPE

DRAWING CONTENTS
ISOMETRIC VIEWS, NOTES AND BILL OF MATERIALS

PROJECT No 09B-19-00
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PROJECTION JDWDS
DATE FEBRUARY-2018
MODEL SCALE: 1:1
DWG SCALE: 1:1 @A3 OR AS SHOWN

SHEET: 02 OF 08 | A3 | No: CORLISS2-02