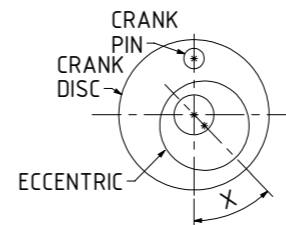


QTY.	PART NUMBER	QTY.	PART NUMBER
1	COFFEEPOT-1-01-UNDER FRAME	10	COFFEEPOT-M3 NUT
1	COFFEEPOT-1-02-R-H MAIN BEARING	10	COFFEEPOT-M3 WASHER
1	COFFEEPOT-1-03-L-H MAIN BEARING	4	COFFEEPOT-M3x8 A-K CYL HEAD SCREW
1	COFFEEPOT-1-04-GEAR SHAFT SUPPORT BRACKET	8	COFFEEPOT-M4 NUT-BRASS
1	COFFEEPOT-1-05-DRIVERS SEAT	22	COFFEEPOT-M4 NUT-STEEL
1	COFFEEPOT-1-06-DRIVERS STEP	1	COFFEEPOT-M4 WASHER
1	COFFEEPOT-1-07-WATERTANK	1	COFFEEPOT-M4 WING NUT
4	COFFEEPOT-1-08-WATERTANK NIPPLE+NUT	2	COFFEEPOT-M4x10 A-K C-SINK SCREW
1	COFFEEPOT-1-09-WATERTANK FILLER CAP	5	COFFEEPOT-M4x10 A-K GRUB SCREW
2	COFFEEPOT-1-10-WATERTANK STOP NUT	4	COFFEEPOT-M4x10 C-SINK SCREW-BRASS
2	COFFEEPOT-1-11-WATERTANK PIPE NUT	2	COFFEEPOT-M4x14 A-K CYL HEAD SCREW
1	COFFEEPOT-1-12-COAL BUNKER	2	COFFEEPOT-M4x20 A-K C-SINK SCREW
1	COFFEEPOT-1-13-COAL BUNKER SUPPORT LEG	2	COFFEEPOT-M4x22 A-K CYL HEAD SCREW
1	COFFEEPOT-1-14-WATER HAND PUMP HOUSING	6	COFFEEPOT-M4x38 STUD
1	COFFEEPOT-1-15-WATER HAND PUMP PISTON	2	COFFEEPOT-M4x42 STUD
1	COFFEEPOT-1-16-WATER HAND PUMP HANDLE	26	COFFEEPOT-M5 NUT
2	COFFEEPOT-1-17-WATER HAND PUMP LINK	4	COFFEEPOT-M5 WASHER
1	COFFEEPOT-1-18-ASHPAN	4	COFFEEPOT-M5x8 PAN HEAD SCREW-BRASS
1	COFFEEPOT-1-19-MECH. WATER PUMP HOUSING	9	COFFEEPOT-M5x10 A-K CYL HEAD SCREW
1	COFFEEPOT-1-20-WATER BYPASS VALVE	17	COFFEEPOT-M5x12 A-K CYL HEAD SCREW
1	COFFEEPOT-1-21-WATER HAND PUMP PIPE-1	12	COFFEEPOT-M5x16 A-K CYL HEAD SCREW
1	COFFEEPOT-1-22-MECH WATER SUPPLY PIPE	10	COFFEEPOT-M5x24 A-K CYL HEAD SCREW
2	COFFEEPOT-1-23-STEERING SPINDLE BEARING BRACKET	4	COFFEEPOT-M5x32 A-K CYL HEAD SCREW
1	COFFEEPOT-2-01-BOILER SHELL	19	COFFEEPOT-M6 NUT
1	COFFEEPOT-2-02-FIRE BOX DOOR	2	COFFEEPOT-M6 WASHER
12	COFFEEPOT-2-03-BOILER NIPPLE	17	COFFEEPOT-M6x14 A-K CYL HEAD SCREW
2	COFFEEPOT-2-03-BOILER NIPPLE	17	COFFEEPOT-M6x16 A-K CYL HEAD SCREW
21	COFFEEPOT-2-04-BOILER TUBE	4	COFFEEPOT-M6x20 A-K CYL HEAD SCREW
1	COFFEEPOT-2-05-BLOWN DOWN VALVE	6	COFFEEPOT-M6x24 A-K CYL HEAD SCREW
2	COFFEEPOT-2-06-NON RETURN VALVE	3	COFFEEPOT-M6x30 A-K CYL HEAD SCREW
2	COFFEEPOT-2-07-SAFETY VALVE	3	COFFEEPOT-M8 NUT
1	COFFEEPOT-2-08-WATER LEVEL GAUGE	1	COFFEEPOT-M8 WASHER
1	COFFEEPOT-2-09-PRESSURE GAUGE	1	COFFEEPOT-M8x16 A-K CYL HEAD SCREW
1	COFFEEPOT-2-10-STEAM SUPPLY MANIFOLD		
3	COFFEEPOT-2-11-STEAM SUPPLY VALVE		
1	COFFEEPOT-2-12-BYPASS PIPE-1		
1	COFFEEPOT-2-13-BYPASS PIPE-2		
1	COFFEEPOT-2-14-HAND PUMP DELIVERY PIPE		
5	COFFEEPOT-2-15-BOILER PLUG		
1	COFFEEPOT-2-16-BLOWER PIPE		
1	COFFEEPOT-2-17-LUBRICATOR		
1	COFFEEPOT-3-01-ENGINE FRAME WORK		
2	COFFEEPOT-3-02-CROSSHEAD GUIDE		
2	COFFEEPOT-3-03-CRANK SHAFT BEARING		
1	COFFEEPOT-3-04-CYLINDER+VALVE CHEST		
1	COFFEEPOT-3-04-CYLINDER+VALVE CHEST		
2	COFFEEPOT-3-05-CYLINDER TOP COVER		
2	COFFEEPOT-3-06-CYLINDER BOTTOM COVER		
6	COFFEEPOT-3-07-CYLINDER DRAIN VALVE PLUG		
2	COFFEEPOT-3-08-CYLINDER EXHAUST PLUG		
2	COFFEEPOT-3-10-VALVE CHEST STEAM INLET NIPPLE		
1	COFFEEPOT-3-11-REVERSING SHAFT BRACKET		
1	COFFEEPOT-3-12-LH-CYLINDER STEAM EXHAUST PIPE		
1	COFFEEPOT-3-13-RH-CYLINDER STEAM EXHAUST PIPE		
1	COFFEEPOT-3-14-CYLINDERS STEM SUPPLY PIPE-1		
1	COFFEEPOT-3-15-REVERSING HANDLE GUIDE PLATE		
1	COFFEEPOT-4-01-STEERING ROLLER FRAME		
2	COFFEEPOT-4-02-STEERING ROLLER DRUM		
1	COFFEEPOT-4-03-STEERING SHAFT		
1	COFFEEPOT-4-04-STEERING WHEEL+SPINDLE		
1	COFFEEPOT-4-05-FRONT ROLLER DRUM+SHAFT		
1	COFFEEPOT-4-06-INTERMEDIATE GEAR SHAFT		
1	COFFEEPOT-4-07-CRANKSHAFT		
2	COFFEEPOT-4-08-PISTON+CROSSHEAD		
2	COFFEEPOT-4-09-CON-ROD		
2	COFFEEPOT-4-10-ECCENTRIC SHEAVE		
2	COFFEEPOT-4-10-ECCENTRIC SHEAVE		
2	COFFEEPOT-4-11-SLIDE VALVE+ SPINDLE		
2	COFFEEPOT-4-12-ECCENTRIC STRAP		
2	COFFEEPOT-4-12-ECCENTRIC STRAP		
2	COFFEEPOT-4-13-EXPANSION LINK		
2	COFFEEPOT-4-14-EXPANSION LINK DIE BLOCK		
1	COFFEEPOT-4-15-REVERSER LEVER+SHAFT		
2	COFFEEPOT-4-16-REVERSER LEVER LINK		
1	COFFEEPOT-4-17-MECH WATER PUMP PISTON		
1	COFFEEPOT-4-18-MECH. WTR. PMP.ECCENTRIC SHEAVE		
1	COFFEEPOT-4-19-MECH. WTR. PMP.ECCENTRIC STRAP		



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:

- ALL DRAWINGS ARE IN METRIC MEASUREMENTS
- ALL ENGINEERING PRACTICES SHALL BE APPLIED WITH REGARDS TO HOLE AND SHAFT TOLERANCES.
- WHERE SCREWS OR BOLTS ARE USED THE CLEARANCE HOLES SHALL BE APPROXIMATELY 5% TO 8% LARGER THAN THE MATCHING TAPPED HOLE.
- PREFERABLY ALL TAPPED HOLES AND MATCHING SCREWS AND/OR BOLTS TO BE METRIC FINE (MF)
- MATERIALS SPECIFIED ON THE DRAWINGS ARE INDICATIVE ONLY. THE BUILDER CAN MAKE HIS/HER OWN MATERIAL CHOICE.
- ALL CONNECTIONS/JOINTS WHICH HAVE STEAM PRESSURE APPLIED TO IT SHALL BE SILVER/HARD SOLDERED.
- COMPRESSION SPRINGS ARE DRAWN IN COMPRESSED STATE (CP), UNCOMPRESSED STATE IS APPROX 40% TO 60% LONGER THEN COMPRESSED STATE.
- 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.
- 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.
- THE ORDER IN WHICH THE PARTS/COMPONENTS ARE MANUFACTURED AND THE MODEL IS ASSEMBLED IS ENTIRELY LEFT TO THE BUILDER/MODEL MAKER.
- A COLOUR SCHEME FOR THIS PROJECT IS ENTIRELY LEFT UP TO THE MODEL MAKER.
- THE MANNER IN WHICH THE PARTS/COMPONENTS ARE MANUFACTURED IS ENTIRELY LEFT UP TO THE BUILDER.
- USE LOCTITE, ON SCREW OR PRESS FIT CONNECTIONS OR SURFACES, WERE DEEMED NECESSARY TO PREVENT PARTS FROM LOOSENING.
- WASHERS AND/OR SPRING WASHERS SHALL BE USED WHERE DEEMED NECESSARY.
- INQUIRE AT THE APPROPRIATE AUTHORITIES WHETHER OR NOT THIS BOILER REQUIRE A PRESSURE TEST CERTIFICATE.
- XX. ERRORS AND/OR OMISSIONS MAY OCCUR IN THE DRAWINGS, DO NOT HESITATE TO CONTACT ME SO THAT THE ERRORS/OMISSIONS CAN BE RECTIFIED.

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
 SS = 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
 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
 SPF= SPOTFACE
 (T)HESOP=(TAPPED)HOLES EQUALLY SPACED ON PCD
 (T)HESOC=(TAPPED)HOLES EQUALLY SPACED ON CIRCUMFERENCE
 [SA-xxx]= SUB ASSEMBLY-xxx

NOTES: THIS DESIGN IS LOOSELY BASED ON DRAWINGS AND ARTICLE WHICH I FOUND A LONG TIME AGO IN ONE OF THE "MODELBOUWER" MAGAZINES 4(2002) ALSO FOUND SOME PRINTS AND PICTURES ON THE INTERNET. THE ORIGINAL DESIGN WAS BY Mr BILL HARRIS. (USA)

TITLE
A MODEL OF A COAL FIRED TANDEM STEAM ROLLER (ALSO CALLED "COFFEEPOT")

DRAWING CONTENTS
ISOMETRIC VIEWS, NOTES AND BILL OF MATERIALS

PROJECT No 08-12-00
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PROJECTION

 DATE: OCTOBER 2018
 SHEET: 02 OF 10
 MODEL SCALE: 1:1
 DWG SCALE: 1:1 @A3 OR AS SHOWN
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 A3 No: 08-12-00-SHT02