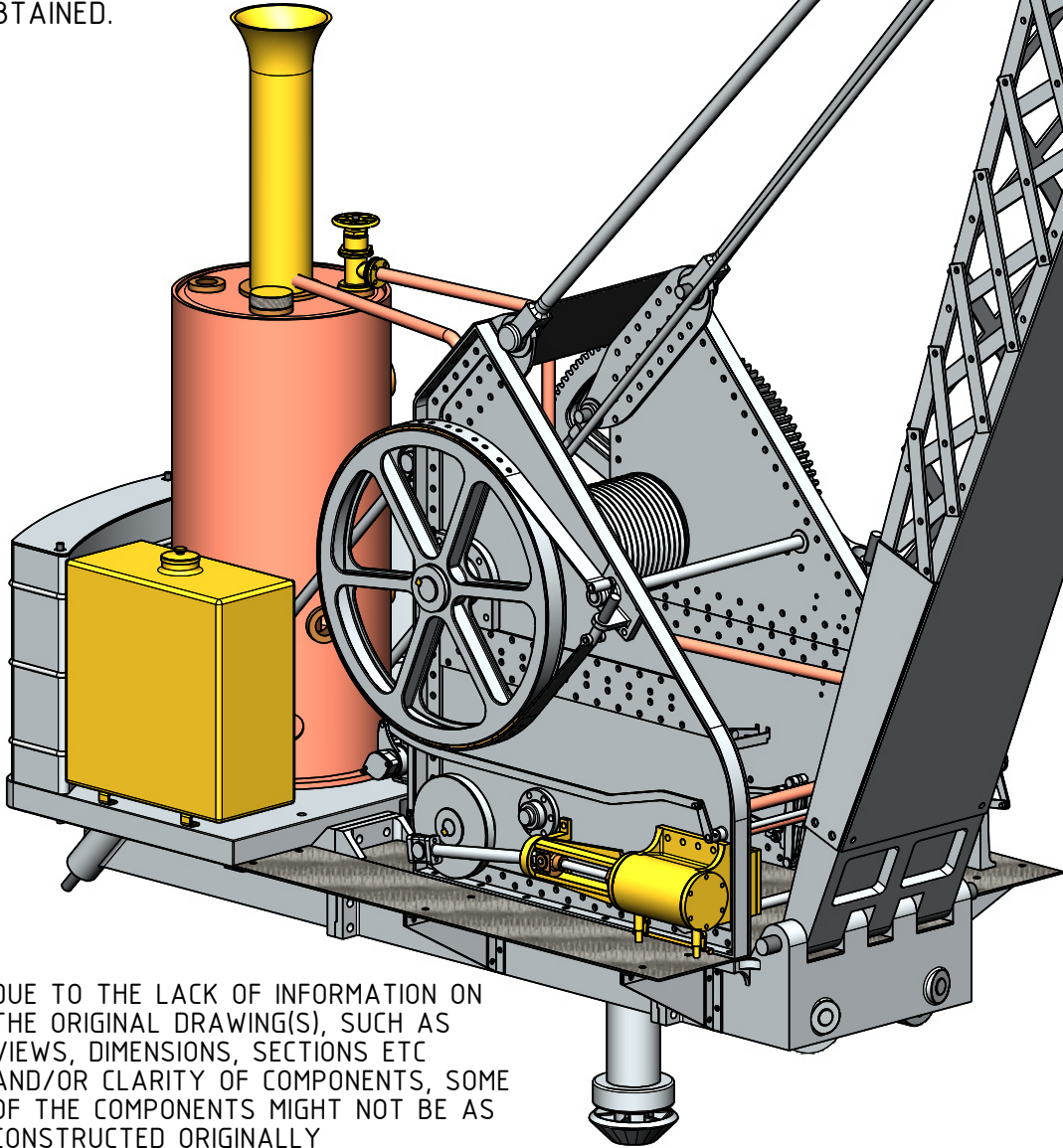


QTY.	PART NUMBER
1	09E-58-00-2-1-01-ROTATING PLATFORM
1	09E-58-00-2-1-02-FRONT EXTENTION
1	09E-58-00-2-1-03-REAR EXTENTION
1	09E-58-00-2-1-04-LEFT SIDE FOOT PLATE
1	09E-58-00-2-1-05-RIGHT SIDE FOOT PLATE
1	09E-58-00-2-1-06-WATER TANK
1	09E-58-00-2-1-07-COUNTERWEIGHT
1	09E-58-00-2-1-08-SIDE FRAMES
2	09E-58-00-2-1-09-REAR STAY
1	09E-58-00-2-1-10-BOILER SHELL
6	09E-58-00-2-1-11-BOILER NIPPLE TYPE-A
1	09E-58-00-2-1-12-BOILER NIPPLE TYPE-B
1	09E-58-00-2-1-13-GAS SUPPLY MIXER
1	09E-58-00-2-1-14-CRANE BOOM
2	09E-58-00-2-1-15-TOP HAND RAIL POST
2	09E-58-00-2-1-15-TOP HAND RAIL POST
2	09E-58-00-2-1-15-TOP HAND RAIL POST
2	09E-58-00-2-1-16-TOP HAND RAIL
2	09E-58-00-2-1-17-BOOM STAY
1	09E-58-00-2-1-18-CYLINDER AND VAVLE CHEST
1	09E-58-00-2-1-18-CYLINDER AND VAVLE CHEST
2	09E-58-00-2-1-19-TRAVEL SHAFT MAIN BEARING
2	09E-58-00-2-1-20-CRANK SHAFT MAIN BEARING
1	09E-58-00-2-1-21-MAIN BEARING FOR SLEWING LIFTING
1	09E-58-00-2-1-21-MAIN BEARING FOR SLEWING LIFTING
1	09E-58-00-2-1-22-MAIN WINDING DRUM BEARING
1	09E-58-00-2-1-22-MAIN WINDING DRUM BEARING
1	09E-58-00-2-1-23-CONE PEDESTAL BEARING
3	09E-58-00-2-1-24-TRAVEL CLUTCH CONTROL BRACKET
3	09E-58-00-2-1-25-TRAVEL CLUTCH BAR SUPPORT BRACKET
1	09E-58-00-2-1-26-DUMMY STEAM CYLINDER FOR GR WHL-C
1	09E-58-00-2-1-27-BRAKE WHEEL SIDE BEARING PLATE
1	09E-58-00-2-1-28-GR WHL-D SIDE BEARING PLATE
1	09E-58-00-2-1-29-BRAKE HAND WHEEL BRACKET
1	09E-58-00-2-1-29-BRAKE HAND WHEEL BRACKET
1	09E-58-00-2-1-30-CONTROL STAND
1	09E-58-00-2-1-31-REVERSING SHAFT END BEARINGS
1	09E-58-00-2-1-32-REVERSING SHAFT THRU BEARING
1	09E-58-00-2-1-33-DUMMY CYLINDER FLOOR BRACKET
1	09E-58-00-2-1-34-STEAM EXHAUST CROSS PIPE
1	09E-58-00-2-1-35-STEAM INLET CROSS PIPE
1	09E-58-00-2-1-36-STEAM INLET CONTROL VALVE
1	09E-58-00-2-1-37-EXHAUST PIPING
1	09E-58-00-2-1-38-FRESH STEAM IN PIPING
1	09E-58-00-2-1-39-MAIN STEAM ON-OFF VALVE
2	09E-58-00-2-1-40-DUMMY CYLINDER DRAIN COCK+LEVER
4	09E-58-00-2-2-01-SLEWING ROLLER
1	09E-58-00-2-2-02-CRANK SHAFT
2	09E-58-00-2-2-03-PISTON+CROSSHEAD
2	09E-58-00-2-2-04-CON-ROD
2	09E-58-00-2-2-05-ECCENTRICS
1	09E-58-00-2-2-06-GEAR WHEEL-N
1	09E-58-00-2-2-07-GR WHL-Q+GR WHL-P+SHAFT
1	09E-58-00-2-2-08-GR WHL-Q+GR WHL-R+SHAFT
1	09E-58-00-2-2-09-TRAVEL CLUTCH
1	09E-58-00-2-2-10-TRAVEL CLUTCH CONTROL YOKE
1	09E-58-00-2-2-11-TRAVEL CLUTCH OPERATOR HANDLE
1	09E-58-00-2-2-12-LIFTING CLUTCH
1	09E-58-00-2-2-13-GEAR WHEEL-A
1	09E-58-00-2-2-14-LIFTING CLUTCH CONTROL YOKE
1	09E-58-00-2-2-15-LIFTING CLUTCH OPERATOR HANDLE
1	09E-58-00-2-2-16-GEAR WHEEL-E
1	09E-58-00-2-2-17-GEAR WHEEL-B
1	09E-58-00-2-2-18-GEAR WHEEL-F
1	09E-58-00-2-2-19-GEAR WHEEL-C
1	09E-58-00-2-2-20-GEAR WHEEL-D
1	09E-58-00-2-2-21-GR WHL-H+GR WHL-J+SHAFT
1	09E-58-00-2-2-22-GR WHL-K+GR WHL-L+SHAFT
1	09E-58-00-2-2-24-CABLE PULLEY-1
1	09E-58-00-2-2-25-CABLE PULLEY-2
1	09E-58-00-2-2-26-BLOCK AND TACKLE
1	09E-58-00-2-2-27-LIFTING CABLE
1	09E-58-00-2-2-28-GR WHL-C OPERATOR YOKE
2	09E-58-00-2-2-29-GR WHL-C OPERATOR YOKESLIDE BLOCK
1	09E-58-00-2-2-30-PLUNGER FOR DUMMY CYLINDER
1	09E-58-00-2-2-31-BRAKE SHOES+BELT
1	09E-58-00-2-2-32-BRAKE CROSS SHAFT
1	09E-58-00-2-2-33-BRAKE YOKE LEVER NUT
1	09E-58-00-2-2-34-BRAKE HANDWHEEL
1	09E-58-00-2-2-35-SLEWING CONTROL HANDLE
1	09E-58-00-2-2-36-ENGINE REVERSING CONTROL HANDLE
1	09E-58-00-2-2-37-SLEWING CONTROL SHAFT

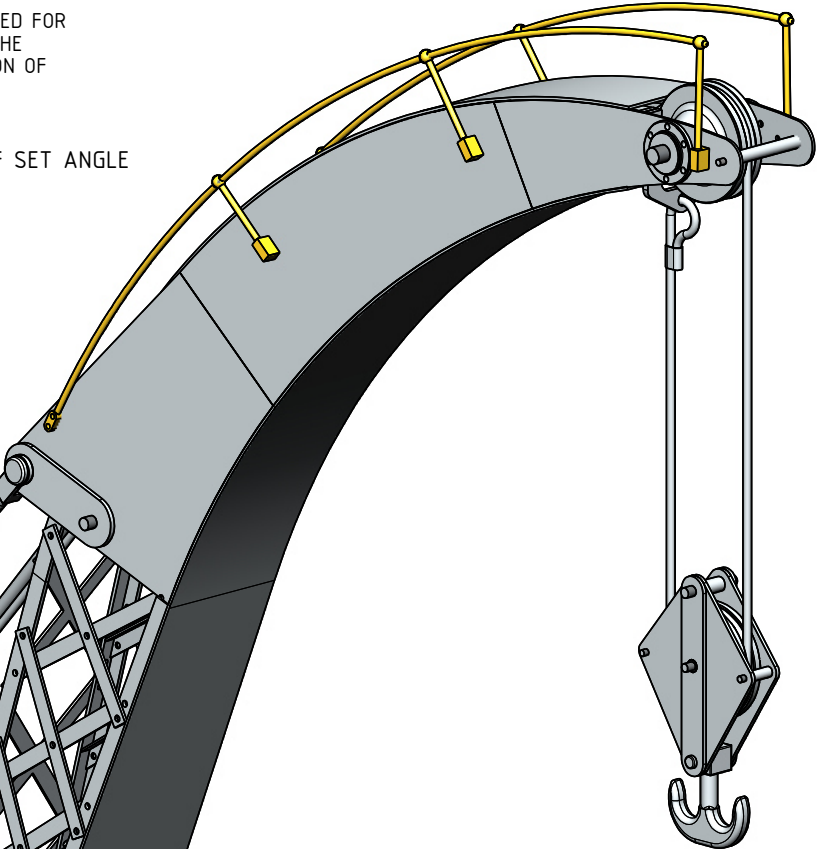
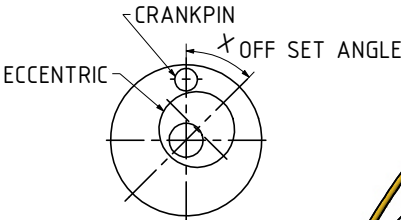
QTY.	PART NUMBER
1	09E-58-00-2-2-38-SLEWING CONTROL SHAFT LINK
1	09E-58-00-2-2-39-FRESH STEAM CONTROL SHAFT
1	09E-58-00-2-2-40-FRESH STEAM CONTROL HANDLE
1	09E-58-00-2-2-41-FRESH STEAM CONTROL SHAFT LINK
1	09E-58-00-2-2-42-DUMMY CYLINDER CONTROL HANDLE
1	09E-58-00-2-2-43-DUMMY CYLINDER CONTROL HANDLE LINK
1	09E-58-00-2-2-44-DUMMY CYLINDER BRACKET PIVOT
1	09E-58-00-2-2-45-DUMMY CYLINDER ON-OFF VALVE
1	09E-58-00-2-2-46-DUMMY CYLINDER OPERATING BAR
2	09E-58-00-2-2-47-SLIDE VALVE
2	09E-58-00-2-2-48-EXSPANSION LINK SLIDING NUT
2	09E-58-00-2-2-49-EXSPANSION LINK
2	09E-58-00-2-2-50-RADIUS BAR
4	09E-58-00-2-2-51-ECCENTRIC STRAP
1	09E-58-00-2-2-52-SLEWING BAR
4	09E-58-00-2-1-41-COUNTERWEIGHT TIE BOLT
1	09E-58-00-2-2-23A-GR WHL-G
1	09E-58-00-2-2-23B-GR WHL-G
1	09E-58-00-2-2-56-SLEWING MOVING COLLAR
1	09E-58-00-2-2-55-SLEWING ENGAGE COLLAR
1	09E-58-00-2-2-54-SLEWING GEAR WHEEL BARREL
1	09E-58-00-2-2-53-SLEWING ENGAGE LEVER

IMPORTANT NOTE:
BEFORE STARTING: IT IS STRONGLY ADVISED THAT THE BOILER AS SHOWN ON THESE DRAWINGS SHOULD BE INSPECTED BY AN AUTHORISED PROFESSIONAL ENGINEER AND THE WORKING AND MAXIMUM BOILER PRESSURE TO BE CALCULATED.
MAKE SURE THE BOILER FULLY COMPLIES WITH THE LOCAL RULES AND REGULATIONS OF MODEL BOILERS.
A COMPLIANCE AND SAFETY/TEST CERTIFICATE SHOULD BE OBTAINED.



DUE TO THE LACK OF INFORMATION ON THE ORIGINAL DRAWING(S), SUCH AS VIEWS, DIMENSIONS, SECTIONS ETC AND/OR CLARITY OF COMPONENTS, SOME OF THE COMPONENTS MIGHT NOT BE AS CONSTRUCTED ORIGINALLY

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



ADDITIONAL NOTES ABOUT THESE DRAWINGS:

- 1) NO MATERIALS HAVE BEEN SPECIFIED ON THESE DRAWINGS. THE BUILDER TO CHOOSE ITS OWN PREFERRED MATERIAL FOR THE PARTS/COMPONENTS. THE FOLLOWING COLOURS ON THE DRAWINGS INDICATES POSSIBLE MATERIALS WHICH CAN BE USED FOR PARTS: YELLOW=BRASS, LIGHT GREY=ALUMINIUM OR MILD STEEL, REDDISH BROWN=COPPER, DARK BROWN=BRONZE OR GUN METAL, WHITISH=SILVER STEEL OR STAINLESS STEEL
- 2) FASTENERS.
NO FASTENERS SUCH AS BOLTS, SCREWS, RIVETS, NUTS AND WASHERS HAVE BEEN SHOWN ON THESE DRAWINGS. THE BUILDER TO CHOOSE ITS OWN PREFERRED TYPE OF FASTENERS.
- 2) PRESSURE GAUGE.
THE RANGE OF THE PRESSURE GAUGE TO BE DETERMENT AFTER MAXIMUM BOILER PRESSURE IS ESTABLISHED AND THE AVAILABILITY ON THE MARKET.
- 3) PIPING
PREFERABLY ALL PIPING TO BE COPPER. THE PIPING ON THE DRAWINGS ARE INDICATIVE ONLY. THE BUILDER TO ESTABLISH THE PIPE LENGTH AND ROUTE FROM WORK PIECE. THE PIPE SIZES ARE INDICATIVE ONLY. THE BUILDER TO ESTABLISH THE AVAILABILITY OF THE PIPE SIZE(S) FROM THE LOCAL SUPPLIER(S). THE PIPE NUT(S) TO BE ADJUSTED TO SUIT THE USED PIPE SIZE.
- 4) BOILER.
BEFORE STARTING: THE BOILER AS SHOWN ON THESE DRAWING SHOULD BE INSPECTED BY AN AUTHORISED PROFESSIONAL ENGINEER. THE RUNNING AND MAXIMUM BOILER PRESSURE TO BE CALCULATED. MAKE SURE THE THE BOILER FULLY COMPLIES WITH THE LOCAL RULES AND REGULATIONS OF MODEL BOILERS. A COMPLIANCE AND TEST CERTIFICATE SHOULD BE OBTAINED. BOILER INSULATION AND BOILER CLADDING ARE NOT SHOWN ON THESE DRAWINGS.
- 5) CHIMNEY.
THE CHIMNEY HAS A LIGHT PRESS FIT. IT IS MADE REMOVABLE FOR TRANSPORT PURPOSES.
- 6) DUMMY PARTS.
IF PREFERRED SOME OF THE DUMMY PARTS COULD BE REPLACED WITH REAL OPERATING PART(S). THE BUILDER TO DESIGN THE PART OR ALTERNATIVELY PURCHASE.
- 7) ENHANCEMENT
THE APPEARANCE OF THE CRANE COULD BE ENHANCED BY ADDING SOME EXTRA PARTS SUCH AS: LIGHING, STEAM WHISTLE, RAILING
- 8) THE FOLLOWING ITEMS/COMPONENTS ARE NOT SHOWN ON THESES DRAWINGS:
 - 1) PRESSURE GAUGE, PROPRIETY ITEM.
 - 2) BOILER WATER LEVEL GAUGE, BUILDER TO DESIGN OR PURCHASE.
 - 3) SAFETY VALVE, BUILDER TO DESIGN OR PURCHASE.
 - 4) HAND AND/OR MECAHNICAL WATER FEED PUMP(S), BUILDER TO DESIGN OR PURCHASE.
 - 5) CHECK VALVE(S) (NON RETURN VALVE), BUILDER TO DESIGN OR PURCHASE.
 - 6) BYPASS VALVE (IF REQUIRED), BUILDER TO DESIGN OR PURCHASE.
- 9) THE BUILDER TO CALCULATE THE TOTAL LENGTH REQUIRED OF THE LIFTING WIRE ROPE/CABLE

OTHER ABBREVIATIONS

AS = AS SHOWN
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
OD = OUTSIDE DIAMETER
ID = INSIDE DIAMETER
MAX/MIN = CRITICAL DIMENSION
[SA-xxx] = SUB ASSEMBLY-xxx

NOTES: THE ORIGINAL DRAWINGS WERE GIVEN TO ME BY TONY SPRENT, AUSTRALIA

TITLE
**A MODEL OF A 25 TONS STEAM CRANE
BUILT BY "JESSOP & APPLEBY"**

DRAWING CONTENTS
**CRANE UPPER SUPER STRUCTURE
ISOMETRIC VIEW, NOTES AND
BILL OF MATERIALS**

PROJECT No 09E-58-00

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PROJECTION

DATE

MARCH 2022

SHEET: 08 OF 24

JDWDS

MODEL SCALE: 1:12.7 (1/2inch)

DWG SCALE: NTS @A3 OR AS SHOWN

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No: 09E-58-00-SHT-08

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