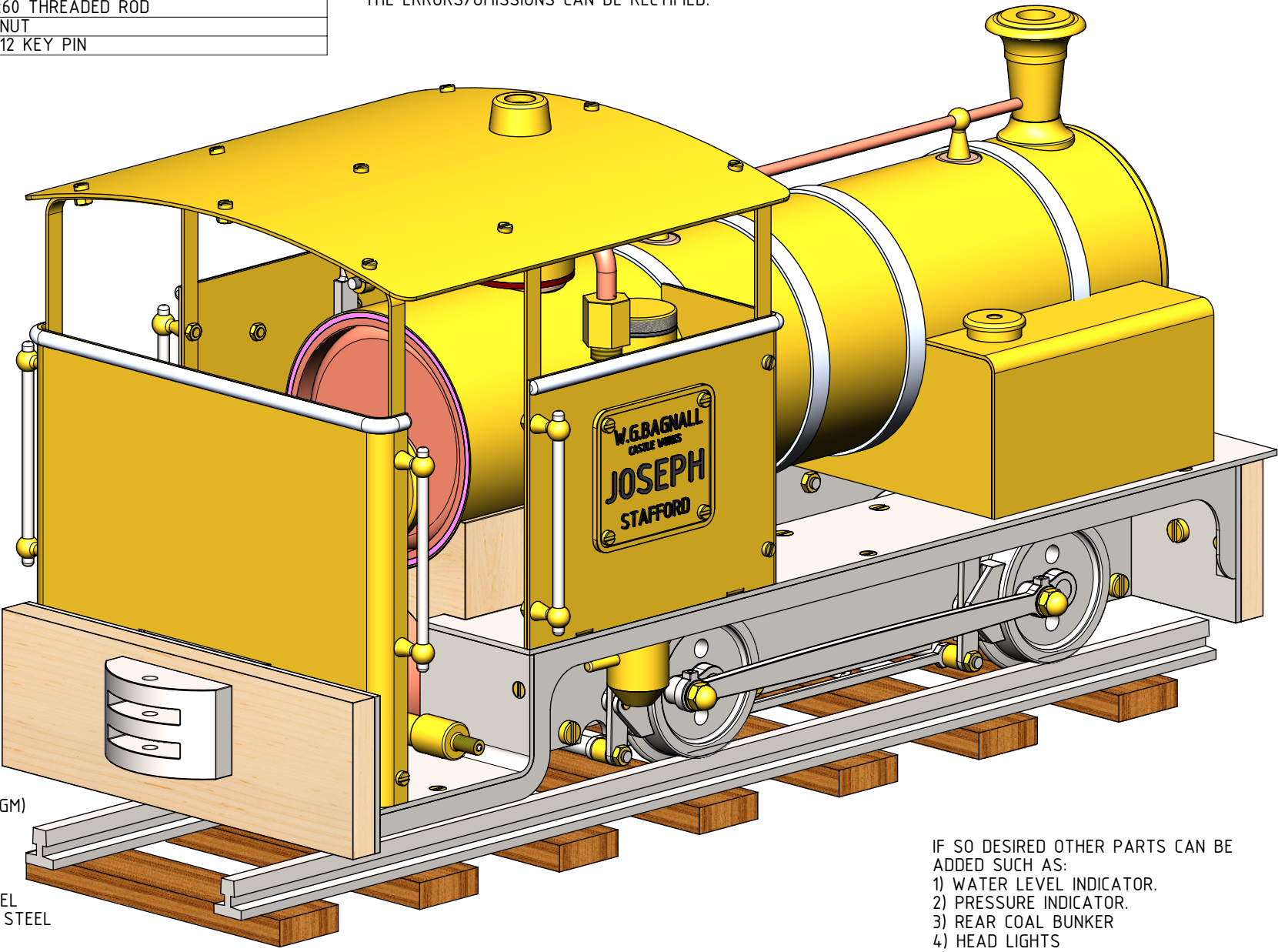


PART NUMBER		PART NUMBER		PART NUMBER	
2	JOSEPH-1-01-SIDE FRAME PLATE	1	JOSEPH-4-11-SMOKEBOX DOOR SURROUND	2	JOSEPH-6-11-NAME PLATE
1	JOSEPH-1-02-FRONT SPACER BLOCK	1	JOSEPH-4-12-SMOKEBOX DOOR	1	JOSEPH-64mm-RAIL
1	JOSEPH-1-03-REAR SPACER	2	JOSEPH-4-13-SMOKE BOX DOOR HINGE STRAP	23	JOSEPH--M2.5x4 PAN HEAD SCREW
1	JOSEPH-1-04A-FRONT BUFFER BEAM PLATE	1	JOSEPH-4-14-SMOKE BOX DOOR LOCKING SCREW	6	JOSEPH--M2.5x6 PAN HEAD SCREW
1	JOSEPH-1-04B-REAR BUFFER BEAM PLATE	2	JOSEPH-4-15-SMOKE BOX DOOR HINGE BLOCK	2	JOSEPH--M2.5x8 PAN HEAD SCREW
1	JOSEPH-1-05A- FRONT BUFFER BEAM	1	JOSEPH-4-16-SMOKE BOX DOOR HINGE PIN	16	JOSEPH--M2.5x10 PAN HEAD SCREW
1	JOSEPH-1-05B- RERAR BUFFER BEAM	1	JOSEPH-4-17-CHIMNEY BASE	4	JOSEPH--M2.5x14 PAN HEAD SCREW
2	JOSEPH-1-06-COUPLING BLOCK	1	JOSEPH-4-18-CHIMNEY	14	JOSEPH--M3x6 PAN HEAD SCREW
1	JOSEPH-1-07-MID FRAME SPACER	2	JOSEPH-4-19-BLOWER PIPE SUPPORT PILLAR	6	JOSEPH--M3x10 PAN HEAD SCREW
2	JOSEPH-1-08-BUFFER PLATE TOP ANGLE	1	JOSEPH-4-20-DUMMY BLOWER PIPE	8	JOSEPH--M4x6 PAN HEAD SCREW
1	JOSEPH-1-09A-SIDE FRAME PLATE TOP ANGLE	1	JOSEPH-4-21-TURRET	10	JOSEPH--M4x8 PAN HEAD SCREW
1	JOSEPH-1-09A-SIDE FRAME PLATE TOP ANGLE	1	JOSEPH-4-22-SAFETY VALVE BOTTOM BODY	49	JOSEPH-M2.5 NUT
2	JOSEPH-1-09B-SIDE FRAME PLATE LOWER ANGLE	1	JOSEPH-4-23-SAFETY VALVE TOP NUT	10	JOSEPH-M2.5x6 C-SINK SCREW
4	JOSEPH-1-10-MAIN AXLE BEARINGS	1	JOSEPH-4-24-SAFETY VALVE BALL VALVE	2	JOSEPH-M3 DOME NUT
1	JOSEPH-1-11-FRONT BOILER REST	1	JOSEPH-4-25-SAFETY VALVE STEM	43	JOSEPH-M3 NUT
1	JOSEPH-1-12-REAR BOILER REST	1	JOSEPH-4-26-SAFETY VALVE STEM SPRING	1	JOSEPH-M3 WASHER
2	JOSEPH-1-13A-PORT BLOCK SPACER-1	1	JOSEPH-4-27-SAFETY VALVE PRESSURE SCREW	15	JOSEPH-M3x6 C-SINK SCREW
2	JOSEPH-1-13B-PORT BLOCK SPACER-2	1	JOSEPH-4-28-REGULATOR BODY	4	JOSEPH-M3x8 C-SINK SCREW
1	JOSEPH-1-14-PORT BLOCK PART	1	JOSEPH-4-29-REGULATOR SPINDLE BODY	4	JOSEPH-M3x14 C-SINK SCREW
1	JOSEPH-1-14-PORT BLOCK PART	1	JOSEPH-4-30-REGULATOR SPINDLE NUT	4	JOSEPH-M4 DOME NUT
1	JOSEPH-1-15-REVERSING HANDLE PIVOT SHAFT	1	JOSEPH-4-31-REGULATOR PIPE NUT	10	JOSEPH-M4 NUT
1	JOSEPH-1-16-STEAM SUPPLY PIPE-1	1	JOSEPH-4-32-REGULATOR SPINDLE	4	JOSEPH-M4 WASHER
1	JOSEPH-1-17-GAS TANK STAY ROD	1	JOSEPH-4-33-REGULATOR SPINDLE HANDLE	2	JOSEPH-M4x8 C-SINK SCREW
1	JOSEPH-1-18-STEAM EXHAUST PIPE	1	JOSEPH-4-34-WATER FILLER SCREW CAP	2	JOSEPH-M4x18 C-SINK SCREW
4	JOSEPH-1-19-BRAKE SUPPORT PIVOT	1	JOSEPH-4-35-BURNER MOUNTING BODY	2	JOSEPH-M4x28 C-SINK SCREW
4	JOSEPH-1-20-BRAKE HANGER	1	JOSEPH-4-36-BURNER PIPE	2	JOSEPH-M4x55 THREADED ROD
4	JOSEPH-1-21-BRAKE SHOE	1	JOSEPH-4-37-STEAM SUPPLY PIPE	2	JOSEPH-M4x60 THREADED ROD
2	JOSEPH-1-22-BRAKE CROSS BAR	QTY.	PART NUMBER	2	JOSEPH-M5 NUT
2	JOSEPH-1-23-BRAKE HANGER LINK	1	JOSEPH-5-01-GAS TANK SHELL	4	JOSEPH-R2x12 KEY PIN
QTY.	PART NUMBER	1	JOSEPH-5-02-GAS TANK FRONT PLATE		
1	JOSEPH-2-01-REAR WHEEL AXLE	1	JOSEPH-5-03-GAS TANK REAR PLATE		
1	JOSEPH-2-02-FRONT WHEEL AXLE	1	JOSEPH-5-04-GAS CONTROL VALVE BODY		
4	JOSEPH-2-03-WHEEL	1	JOSEPH-5-05-GAS CONTROL VALVE STEM		
4	JOSEPH-2-04-WHEEL CRANK PIN	1	JOSEPH-5-06-GAS CONTROL VALVE SPINDLE NUT		
2	JOSEPH-2-05-COUPLING ROD	1	JOSEPH-5-09-GAS TANK FILLER VALVE HOUSING		
2	JOSEPH-2-06-CYLINDER	1	JOSEPH-5-10-GAS TANK FILLER VALVE		
2	JOSEPH-2-07-CYLINDER FRONT COVER	1	JOSEPH-5-11-GAS TANK FILLER VALVE TOP		
2	JOSEPH-2-08-CYLINDER REAR COVER	1	JOSEPH-5-12-GAS TANK FILLER VALVE SPRING		
2	JOSEPH-2-09-PISTON ROD GLAND PLATE	1	JOSEPH-5-13-GAS TANK NIPPLE		
1	JOSEPH-2-10-CYLINER PIVOT SHAFT	1	JOSEPH-5-14-GAS TANK CENTER STAY		
1	JOSEPH-2-11-CYLINDER RETAINING SPRING	1	JOSEPH-5-15-GAS JET HOLDER		
2	JOSEPH-2-12-PISTON	1	JOSEPH-5-16-GAS JET		
2	JOSEPH-2-13-PISTON ROD	1	JOSEPH-5-17-GAS TANK FILLER NIPPLE		
2	JOSEPH-2-14-PISTON ROD BIG END	QTY.	PART NUMBER		
1	JOSEPH-2-15-REVERSING VALVE	1	JOSEPH-6-01-LH-RH-CABIN FRONT		
1	JOSEPH-2-16-REVERSING VALVE PIVOT SCREW	1	JOSEPH-6-01-LH-RH-CABIN FRONT		
1	JOSEPH-2-17-REVERSING VALVE PRESSURE SPRING	2	JOSEPH-6-02-FRONT BEADING		
1	JOSEPH-2-18-REVERSER OPERATOR HANDLE	1	JOSEPH-6-03-CABIN REAR END PLATE		
1	JOSEPH-2-19-REVERSER REACH ROD	1	JOSEPH-6-04-REAR BEADING		
QTY.	PART NUMBER	1	JOSEPH-6-05-CABIN ROOF REAR SUPPORT		
1	JOSEPH-3-01-FRONT FOOTPLATE	2	JOSEPH-6-06-CABIN ROOF FRONT SUPPORT		
1	JOSEPH-3-02-LH-UPPER FOOTPLATE	8	JOSEPH-6-07A-HAND RAIL SUPPORT PILLAR		
1	JOSEPH-3-03-LH-LOWER FOOTPLATE	4	JOSEPH-6-07B-HAND RAIL		
1	JOSEPH-3-04-RH-UPPER FOOTPLATE	1	JOSEPH-6-08-CABIN ROOF TOP		
1	JOSEPH-3-05-RH-LOWER FOOTPLATE	1	JOSEPH-6-09-SAFETY VALVE COVER		
1	JOSEPH-3-06-VALANCE	1	JOSEPH-6-10-SAFETY VALVE COVER NUT		
1	JOSEPH-3-06-VALANCE	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-xxx]= SUB ASSEMBLY-xxx MATERIAL ABBREVIATIONS: ALU = ALUMINIUM BRS = BRASS BRZ = BRONZE OR GUNMETAL (BRZ/GM) PBRZ= PHOSPHOR BRONZE 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			
2	JOSEPH-3-07-DUMMY WATER TANK FRONT-BACK				
1	JOSEPH-3-08-DUMMY WATER TANK SIDE-TOP				
1	JOSEPH-3-08-DUMMY WATER TANK SIDE-TOP				
2	JOSEPH-3-09-DUMMY WATER TANK FILLER CAP				
1	JOSEPH-3-10-DISPL. LUB. OIL POT				
1	JOSEPH-3-11-DISPL. LUB. OIL POT CAP				
1	JOSEPH-3-12-DISPL. LUB. OIL POT DRAIN BODY				
1	JOSEPH-3-13-DISPL. LUB. OIL POT BALL VALVE				
1	JOSEPH-3-14-DISPL. LUB. OIL POT STEAM PIPE				
1	JOSEPH-3-15-DISPL. LUB. OIL POT-M10 NUT	IF SO DESIRED OTHER PARTS CAN BE ADDED SUCH AS: 1) WATER LEVEL INDICATOR. 2) PRESSURE INDICATOR. 3) REAR COAL BUNKER 4) HEAD LIGHTS 5) TAIL LIGHTS 6) WHISTLE 7) BRAKING OPERATOR SYSTEM			
1	JOSEPH-3-16-DISPL. LUB. OIL POT STEAM PIPE NUT				
1	JOSEPH-3-16-DISPL. LUB. OIL POT STEAM PIPE NUT				
QTY.	PART NUMBER				
1	JOSEPH-4-01-BOILER SHELL				
2	JOSEPH-4-02-BOILER END				
1	JOSEPH-4-03-BOILER FLUE				
1	JOSEPH-4-04-BOILER WATER FILLER BUSH				
1	JOSEPH-4-05-BOILER TURRET BUSH				
2	JOSEPH-4-06-BOILER BLOWER PIPE SUPPORT BUSH				
2	JOSEPH-4-07-BOILER BOLT DOWN BUSH	NOTES: THESE DRAWINGS ARE LOOSELY BASED ON A SET OF DRAWINGS WHICH WERE FOUND ON THE INTERNET AND WERE TITLED "BAGNALL BRICK 210/1879.			
1	JOSEPH-4-08-BOILER SHELL THERMAL BLANKET				
1	JOSEPH-4-09-BOILER CLADDING				
4	JOSEPH-4-10-BOILER CLADDING BAND				

NOTES: THESE DRAWINGS ARE LOOSELY BASED ON A SET OF DRAWINGS WHICH WERE FOUND ON THE INTERNET AND WERE TITLED "BAGNALL BRICK 210/1879.

TITLE	DRAWING CONTENTS	PROJECT No 07E-13-00	PROJECTION	MODEL SCALE: 1:1
SIMPLE MODEL OF A NARROW GAUGE GAS FIRED LOCO CALLED "JOSEPH" (64mm/2.5")	ISOMETRIC VIEW, BILL OF MATERIALS AND NOTES	JDW DRAUGHTING SERVICES	 JDWDS	DWG SCALE: NTS @A3 OR AS SHOWN
		J.A.M. DE WAAL, 12 BRIGHTWELL STREET PAPA KURA 2110. NEW ZEALAND. PHONE: 0064 09 2988815. MOB: 0211791000 E-MAIL: dewaal@xtra.co.nz.	DATE	Copyright © J.A.M. DE WAAL PAPA KURA NZ
			DECEMBER-2016	
		SHEET: 02 OF 07	A3 No: JOSEPH-02	