_	3		2	
QTY. PART NUMBER 2 HUDSON-1-01-SIDE FRAME	QTY. PART NUMBER 1 HUDSON-1-108-M14x10 PIPE NUT	QTY. PART NUMBER 2 HUDSON-4-42-INJECTOR STEAM PIPE NUT	QTY. PART NUMBER 1 HUDSON-7-03-SAND BOX MOUNTING SPINDLE	QTY. 2 HUDSON
1 HUDSON-1-02-REAR DRAWBAR BEAM 4 HUDSON-1-03-AXLE BOX KEEPER	1 HUDSON-1-109-DRAW BAR BOLT 1 HUDSON-1-110-DRAW BAR	1 HUDSON-4-43-INJECTOR STEAM PIPE-1 3 HUDSON-4-44-CHECK VALVE BUSH	1 HUDSON-7-04-SAND BOX DISCHARGE PIPE 1 HUDSON-7-04-SAND BOX DISCHARGE PIPE	1 HUDSON 13 HUDSON
1 HUDSON-1-04-REAR DRAWBAR BEAM BRACKET 1 HUDSON-1-05-TRUCK BOLSTER PLATE	QTY. PART NUMBER	3 HUDSON-4-45-CHECK VALVE BODY 3 HUDSON-4-46-CHECK VALVE BALL VALVE	1 HUDSON-7-05-WATER FEED PUMP IN LET PIPE	4 HUDSON 2 HUDSON
2 HUDSON-1-06-FRONT BUFFER BEAM ANGLE	2 HUDSON-2-01-WHEEL AXLE 2 HUDSON-2-02-DRIVING WHEEL	3 HUDSON-4-47-CHECK VALVE TOP SCREW	1 HUDSON-7-06-BY PASS VALVE-FEED PUMP PIPE 1 HUDSON-7-07-WTR FD PMP-RH CHECK VALVE PIPE	4 HUDSON
1 HUDSON-1-07-FRONT BUFFER BEAM 4 HUDSON-1-08-AXLE BLOCK	2 HUDSON-2-03-TRAILING WHEEL 2 HUDSON-2-04-DRIVING WHEEL CRANK PIN	3 HUDSON-4-48-CHECK VALVE PIPE NUT 1 HUDSON-4-49-PRESSURE GAUGE-0-60PSI	1 HUDSON-7-08-WTR GAUGE DISCHARGE PIPE 1 HUDSON-7-09-INJECTOR-CHECK VALVE PIPE	2 HUDSON 1 HUDSON
4 HUDSON-1-09-LEAF SPRING PACK 4 HUDSON-1-10-LEAFSPRING-AXLE BOX SADDLE	2 HUDSON-2-05-TRAILING WHEEL CRANK PIN 1 HUDSON-2-06-COUPLING ROD	1 HUDSON-4-50-PRESSURE GAUGE PIPE NUT 1 HUDSON-4-51-PRESSURE GAUGE SUPPLY PIPE	1 HUDSON-7-10-INJ STM VLVE-INJECTOR PIPE 1 HUDSON-7-11-HAND PUMP-CHECK VALVE PIPE	1 HUDSON 2 HUDSON
4 HUDSON-1-11-AXLE BOX SPRING 2 HUDSON-1-12-LEAFSPRING SOLID EQUALISER	1 HUDSON-2-05-COUPLING ROD 2 HUDSON-2-07-COUPLING ROD FRONT BEARING	1 HUDSON-4-52-BLOWDOWN VALVE BUSH 1 HUDSON-4-53-INJECTOR STEAM VALVE BUSH	1 HUDSON-7-12-MAIN INLET STEAM PIPE 1 HUDSON-7-13-SNIFTING VALVE PIPE	4 HUDSON
2 HUDSON-1-13-SOLID EQUALISER PEDESTAL	2 HUDSON-2-08-COUPLING ROD REAR BEARING	1 HUDSON-4-54-BLOWER VALVE BUSH	1 HUDSON-7-14-WHISTLE BODY	4 HUDSON
4 HUDSON-1-14-LEAFSPRING HANGER-1 4 HUDSON-1-15-LEAFSPRING HANGER-2	2 HUDSON-2-09-PISTON AND ROD 2 HUDSON-2-10-CROSSHEAD	1 HUDSON-4-55-BLOWDOWN VALVE BODY 1 HUDSON-4-56-BLOWDOWN VALVE SCREW PLUG	1 HUDSON-7-15-WHISTLE BELL-BOTTOM 1 HUDSON-7-16-WHISTLE BELL-TOP	8 HUDSON
8 HUDSON-1-16-LEAFSPRING HANGER-3 1 HUDSON-1-17-COW CATCHER BOTTOM FRAME	2 HUDSON-2-11-CROSSHEAD PIN 2 HUDSON-2-12-CON-ROD	1 HUDSON-4-57-WTR LVL TEST VALVE BUSH 1 HUDSON-4-58-WTR LVL TEST VALVE BODY	1 HUDSON-7-17-WHISTLE BELL-TOP SCREW 1 HUDSON-7-18-WHISTLE SPECIAL M6 NUT	4 HUDSON 8 HUDSON
1 HUDSON-1-18-COW CATCHER REAR FRAME 1 HUDSON-1-19-COW CATCHER ANGLE BRACKET	2 HUDSON-2-13-CON-ROD BEARING BUSH 2 HUDSON-2-14-COUPLING ROD FRONT SPACER	1 HUDSON-4-59-WTR LVL TEST VALVE SPINDLE NUT 1 HUDSON-4-60-WTR LVL TEST VALVE SPINDLE	1 HUDSON-7-19-WHISTLE PIPE 2 HUDSON-7-20-FLAG POLE SOCKET	4 HUDSON
1 HUDSON-1-19-COW CATCHER ANGLE BRACKET 2 HUDSON-1-20-COW CATCHER ANGLE BRACKET-1	2 HUDSON-2-15-COUPLING ROD REAR SPACER 4 HUDSON-2-16-CPG ROD OUTER SPACER	2 HUDSON-4-61A-WTR GAUGE BOILER NIPPLE 1 HUDSON-4-61B-WTR GAUGE TOP BODY	6 HUDSON-7-21-BOILER HAND RAIL PILLAR 12 HUDSON-7-22-FIRE BOX HAND RAIL PILLAR	NOTES:
1 HUDSON-1-21-COW CATCHER BARS 1 HUDSON-1-22-PULL HOOK EYE BOLT	1 HUDSON-2-18-VALVE ECCCENTRIC SHEAVE 4 HUDSON-2-18-VALVE ECCCENTRIC SHEAVE	1 HUDSON-4-62-WTR GAUGE TOP BODY PLUG 2 HUDSON-4-63-WTR GAUGE GLASS NUT	2 HUDSON-7-24-SMOKE BOX HAND RAIL 2 HUDSON-7-24-SMOKE BOX HAND RAIL	NOTES: 0. ALL 1. ALL E
1 HUDSON-1-23-FRONT PULL BAR	2 HUDSON-2-19-SLIDE VALVE	1 HUDSON-4-64-WTR GAUGE BOTTOM BODY	2 HUDSON-7-25-SMOKE BOX HAND RAIL PILLAR	2. WHEF
2 HUDSON-1-24-CYLINDER 2 HUDSON-1-25-CYLINDER SLEEVE	2 HUDSON-2-20-SLIDE VALVE BUCKLE AND SPINDLE 2 HUDSON-2-21-VALVE SPINDLE YOKE	1 HUDSON-4-65-WTR GAUGE VALVE SPINDLE NUT 1 HUDSON-4-66-WTR GAUGE VALVE SPINDLE	1 HUDSON-7-26-BELL STAND 1 HUDSON-7-27-BELL MOUNTING FRAME	3. PREF
2 HUDSON-1-26-CYLINDER FRONT COVER 2 HUDSON-1-27A-CYLINDER REAR COVER	1 HUDSON-2-22A-INJECTOR ECCENTRIC STRAP 1 HUDSON-2-22B-INJECTOR PISTON	1 HUDSON-4-67-WTR GAUGE GLASS TUBE 2 HUDSON-4-68-WTR GAUGE PIPE NUT	1 HUDSON-7-28-BELL 1 HUDSON-7-29-BELL CLEVIS	- MATERIA
2 HUDSON-1-27B-PISTON ROD SEAL 2 HUDSON-1-28-PISTON ROD SEAL SCREW	1 HUDSON-2-23-INJECTOR PISTON PIN 2 HUDSON-2-24-VALVE ECCENTRIC STRAP	1 HUDSON-4-69-THROTLE LEVER BOILER BUSH 1 HUDSON-4-70-THROTLE LEVER BOILER ANCHOR	1 HUDSON-7-30A-BELL CLAPPER 1 HUDSON-7-30B-BELL OPERATING HANDLE	5. INQUI
4 HUDSON-1-29-CROSS HAED GUIDE 1 HUDSON-1-30-GUIDE YOKE PLATE	2 HUDSON-2-24-VALVE ECCENTRIC STRAP 4 HUDSON-2-25-VALVE ECCENTRIC STRAP ROD	1 HUDSON-4-71-THROTLE LEVER SPINDLE NUT 1 HUDSON-4-72-THROTLE LEVER SPINDLE	1 HUDSON-7-31-HEAD LAMP BASE MOUNTING PLATE 1 HUDSON-7-32-HEAD LAMP MAIN CASE	6. ALL SOLDER
4 HUDSON-1-31-GUIDE YOKE ANGLE BRACKET	2 HUDSON-2-26-VALVE ROCKING SHAFT OUTER CRANK	2 HUDSON-4-73-THROTLE LEVER SPINDLE YOKE	1 HUDSON-7-33-HEAD LAMP WICK HOLDER	7. COMP 40% TO
2 HUDSON-1-32-VALVE CHEST 2 HUDSON-1-33-VALVE CHEST PORT PLATE	2 HUDSON-2-27-VALVE ROCKING SHAFT INNER CRANK 2 HUDSON-2-28-VALVE ROCKING SHAFT	2 HUDSON-4-74-THROTLE LEVER LINK 1 HUDSON-4-75-THROTLE LEVER	1 HUDSON-7-34-HEAD LAMP REFLECTOR 1 HUDSON-7-35-HEAD LAMP GLASS FRONT RING	8. WHEF BONDED
2 HUDSON-1-34-VALVE CHEST TOP GASKET 2 HUDSON-1-35-VALVE CHEST TOP COVER	1 HUDSON-2-29-VALVE ROD YOKE PIN 1 HUDSON-2-29-VALVE ROD YOKE PIN	1 HUDSON-4-76-FIRE DOOR HINGE PLATE 1 HUDSON-4-77A-FIRE DOOR CATCH PLATE	1 HUDSON-7-36-HEAD LAMP TOP CASING 2 HUDSON-7-37-NAME PLATE	9. PART
2 HUDSON-1-36-VALVE ROD SEAL SCREW 2 HUDSON-1-37-VALVE ROD SEAL	2 HUDSON-2-30-VALVE CON-ROD 2 HUDSON-2-31-EXPANSION LINK	1 HUDSON-4-77B-FIRE DOOR 1 HUDSON-4-78-STM CTRL MOUNTING BRACKET	2 HUDSON-7-38-NUMBER PLATE 2 HUDSON-7-39-DRIVERS CABIN HAND RAIL	COPPER
2 HUDSON-1-38-TALLOW CUP 2 HUDSON-1-39-TALLOW CUP TOP COVER	2 HUDSON-2-32-EXPANSION LINK BRIDGE 2 HUDSON-2-33-EXPANSION LINK SLIDER	1 HUDSON-4-79-STM CTRL MAIN BODY 1 HUDSON-4-80-STM CTRLVALVE SPINDLE	QTY. PART NUMBER 1 HUDSON-8-01-TDR UNDER FRAME	10. THE
1 HUDSON-1-40-INJECTOR PUMP MAIN BODY 1 HUDSON-1-40-INJECTOR PUMP INTAKE NIPPLE	2 HUDSON-2-34-EXPANSION LINK SLIDER BOLT	1 HUDSON-4-81-STM CTRLVALVE PLATE 1 HUDSON-4-82-STM CTRL CRANK PLATE	1 HUDSON-8-02-TDR FRONT COUPLING	11. THE
1 HUDSON-1-42-INJECTOR PUMP OUTLET NIPPLE	1 HUDSON-2-35-REVERSING SHAFT 2 HUDSON-2-36-REVERSING LIFTING ARM	1 HUDSON-4-83-STM CTRL CRANK PLATE SCREW-1	1 HUDSON-8-03-TDR REAR COUPLING 6 HUDSON-8-04-TDR ANGLE MOUNTING BRACKET	THAT T
1 HUDSON-1-43-INJECTOR PUMP PISTON COVER NUT 2 HUDSON-1-44-INJECTOR PUMP BALL VALVE	1 HUDSON-2-37-REVERSING SHAFT REVERSING ARM 2 HUDSON-2-38-REVERSING LIFTING LINK	2 HUDSON-4-84-STM CTRL CRANK PLATE SCREW-2 1 HUDSON-4-85-STM CTRL CRANK PLATE LINK	2 HUDSON-8-05-TDR BOGIE BOLSTER 2 HUDSON-8-06-TDR BOGIE PIVOT AXLE	LENGTH
1 HUDSON-1-45-STEAM INLET MANIFOLD 1 HUDSON-1-46-STEAM INLET MANIFOLD OILER NIPPLE	1 HUDSON-2-40-OIL PUMP ROCKING SHAFT AND ARMS 1 HUDSON-2-41-VALVE SPINDLE TO OIL PUMP ROCKER LINK	1 HUDSON-4-86-STM CTRL SPRING 1 HUDSON-4-87-STM CTRL MAIN SUPPLY PIPE	2 HUDSON-8-07-TDR BOGIE FRAME 16 HUDSON-8-08-TDR BOGIE AXLE BOX GUIDE	ABOUT
1 HUDSON-1-47-STEAM INLET PIPE NIPPLE 1 HUDSON-1-48-STEAM INLET MANIFOLD OILER BALL VALVE	1 HUDSON-2-42-OILER LINK ROD 1 HUDSON-2-43-REVERSER LEVER HANDLE	1 HUDSON-4-88-SUP-HTR MANIFOLD BOX BASE 1 HUDSON-4-89-SUP-HTR MANIFOLD BOX	4 HUDSON-8-09-TDR BOGIE AXLE BOX RETAINER BAR 2 HUDSON-8-10-TDR BOGIE PIVOT BEARING	THIS MO
1 HUDSON-1-48-STEAM INLET MANIFOLD OILER SPRING 2 HUDSON-1-49-STEAM INLET MANIFOLD SUPPLY PIE	1 HUDSON-2-44-REVERSER LEVER TRIGGER	3 HUDSON-4-90-SUP-HTR PIPE-1 3 HUDSON-4-91-SUP-HTR PIPE-2	4 HUDSON-8-11-TDR BOGIE LEAF SPRING	_ IF THE
1 HUDSON-1-50-EXHAUST MANIFOLD)	1 HUDSON-2-45-REVERSER LOCKING ARM 1 HUDSON-2-46-REVERSER LOCKING BLOCK	3 HUDSON-4-92-SUP-HTR PIPE CONNECTOR	8 HUDSON-8-12-TDR EQUALISER BAR 4 HUDSON-8-13-TDR AXLE BOX SPRING	BY THE THE ES
2 HUDSON-1-51-EXHAUST MANIFOLD SUPPLY PIE 2 HUDSON-1-52-REVERSING ROD BEARING BLOCK	1 HUDSON-2-47-REVERSER REACH ROD 4 HUDSON-2-48-M8 CROWN NUT	1 HUDSON-4-93-SUP-HTR MANIFOLD-2 1 HUDSON-4-94-SAFETY VALVE BASE	16 HUDSON-8-14-TDR LEAFSPRING HANGER 8 HUDSON-8-15-TDR AXLE BOX	PRESSU IN THIS
1 HUDSON-1-53-OIL PUMP CONTAINER 1 HUDSON-1-54A-OIL PUMP CONTAINER COVER	4 HUDSON-2-49-2mm ROLL PIN QTY. PART NUMBER	1 HUDSON-4-95-SAFETY VALVE VALVE 1 HUDSON-4-96-SAFETY VALVE VALVE STEM	4 HUDSON-8-16-TDR WHEEL AXLE 8 HUDSON-8-17-TDR WHEEL	PLEASE
1 HUDSON-1-54B-OIL PUMP ROCKER SHAFT BEARING 1 HUDSON-1-55-OIL PUMP STAND	1 HUDSON-3-01-TOP FRAME PLATE 8 HUDSON-3-02-AXLE BOX GUIDE	2 HUDSON-4-97-SAFETY VALVE STUD 1 HUDSON-4-98A-SAFETY VALVE PRESSURE PLATE	1 HUDSON-8-18-TDR FOOT PLATE 1 HUDSON-8-19-TDR FEED PUMP STRAINER]
1 HUDSON-1-56-OIL PUMP CHECK VALVE BODY 1 HUDSON-1-57-OIL PUMP VALVE COVER	2 HUDSON-3-03-BOTTOM PLATE 4 HUDSON-3-04-AXLE BOX	1 HUDSON-4-98B-SAFETY VALVE PRESSURE SPRING 2 HUDSON-4-99-ASHPAN HOLDING BRACKET	1 HUDSON-8-20-TDR INJECTOR WATER VALVE BODY 1 HUDSON-8-21-TDR INJECTOR WATER VALVE SPINDLE NUT	1
1 HUDSON-1-58-OIL PUMP BALL VALVE 1 HUDSON-1-59-OIL PUMP BALL VALVE SPRING	4 HUDSON-3-05-EQUALISER BAR	1 HUDSON-4-100-ASHPAN 6 HUDSON-4-101-GRATE BEARER	1 HUDSON-8-22-TDR INJECTOR WATER VALVE SPINDLE	1
1 HUDSON-1-60-OIL PUMP CYLINDER	2 HUDSON-3-07-AXLE BOX SPRING	6 HUDSON-4-102-GRATE BEARER SPACER	1 HUDSON-8-23A-TDR FEED PUMP PIPE 1 HUDSON-8-23B-TDR INJECTOR PIPE	<u> </u>
1 HUDSON-1-61-OIL PUMP CYLINDER SPRING 1 HUDSON-1-62A-OIL PUMP CRANK SHAFT	8 HUDSON-3-08-LEAFSPRING HANGER 2 HUDSON-3-09-WHEEL AXLE	4 HUDSON-4-103-GRATE BEARER MOUNTING BRACKET 1 HUDSON-4-104-ASHPAN HOLDING PIN	1 HUDSON-8-24-TDR BY-PASS FLANGE FITTING 1 HUDSON-8-25-TDR FLOOR MOUNTING ANGLE-1	<u> </u>
1 HUDSON-1-62B-OIL PUMP PISTON 1 HUDSON-1-62C-OIL PUMP RACHET GEAR WHEEL	4 HUDSON-3-10-WHEEL 1 HUDSON-3-11-PIVOT AXLE	1 HUDSON-4-110-BOILER GLADDING-1 1 HUDSON-4-111-BOILER GLADDING-2	1 HUDSON-8-26-TDR HAND FEED PUMP FLOOR ELBOW 1 HUDSON-8-27-HD FD PP UNION FITTING LOCK NUT	MATERIA ALU = A
1 HUDSON-1-62D-OIL PUMP STATIONARY PAWL 1 HUDSON-1-63-OIL PUMP STATIONARY PAWL SPRING	QTY. PART NUMBER 1 HUDSON-4-01-FOUNDATION RING	1 HUDSON-4-112-BOILER GLADDING-3 1 HUDSON-4-113-BOILER GLADDING-4	1 HUDSON-8-28A-TDR HAND PUMP BASE BODY 1 HUDSON-8-28B-TDR HAND PUMP BODY	BRS = E
1 HUDSON-1-64-OIL PUMP STATIONARY PAWL SHAFT 1 HUDSON-1-65-OIL PUMP SWING ARM	1 HUDSON-4-02-FIRE BOX SHELL 1 HUDSON-4-03-FIRE BOX DOOR PLATE	3 HUDSON-4-114-CLADDING STRAP-1 1 HUDSON-4-115-CLADDING STRAP-2	1 HUDSON-8-29-TDR HAND PUMP BODY TOP OUTLET 1 HUDSON-8-30-TDR HAND PUMP BODY BOTTOM INLET	- BRZ = E
1 HUDSON-1-66-OIL PUMP MOVING PAWL 1 HUDSON-1-67-OIL PUMP MOVING PAWL SPRING	1 HUDSON-4-04-FIRE BOX FRONT PLATE	6 HUDSON-4-116-RUNNING BOARD BOILER BRACKET-1 2 HUDSON-4-117-RUNNING BOARD BOILER BRACKET-2	2 HUDSON-8-31A-TDR HAND PUMP BALL VALVE	_
1 HUDSON-1-68-OIL PUMP MOUNTING BRACKET	3 HUDSON-4-05-FLUE PIPE 12 HUDSON-4-06-FLAME TUBES	1 HUDSON-4-118-WTR GAUGE PIPE NUT M6x3	1 HUDSON-8-31B-TDR HAND PUMP PISTON 2 HUDSON-8-32-TDR HAND PUMP LINK	MS = N S/S = S
2 HUDSON-1-69-OIL PUMP PIPE NUT 1 HUDSON-1-70-OIL PUMP SUPPLY PIPE	1 HUDSON-4-07-FIRE HOLE RING 1 HUDSON-4-08-BOILER END MANTEL	QTY. PART NUMBER 1 HUDSON-5-01-SMOKE BOX MOUNTING RING	1 HUDSON-8-33-TDR HAND PUMP HANDLE 2 HUDSON-8-35-TDR HAND PUMP M8x5 PIPE NUT	SPS = S SYN = S
1 HUDSON-1-71-ROCKING SHAFT BEARING 1 HUDSON-1-72-REVERSING HANDLE BEARING BLOCK	1 HUDSON-4-09-FIRE BOX CROWN STAY 1 HUDSON-4-09-FIRE BOX CROWN STAY	1 HUDSON-5-02-SMOKE BOX SHELL 1 HUDSON-5-03-SMOKE DOOR MOUNTING RING	1 HUDSON-8-36-TDR HAND PUMP SUPPLY PIPE 1 HUDSON-8-37-TDR TENDER SHELL]
2 HUDSON-1-73A-REVERSING SECTOR SUPPORT 2 HUDSON-1-73B-REVERSING SECTOR	2 HUDSON-4-10-FIRE BOX STIFFENING ANGLE 1 HUDSON-4-11-BOILER DOME BUSH	1 HUDSON-5-04-SMOKE BOX DOOR 2 HUDSON-5-05-SMOKE DOOR HINGE STRAP	1 HUDSON-8-38-TDR SHELL TOP MOUNTING PLATE 1 HUDSON-8-39-TDR WATER ACCESS HATCH SUROUND	PEEK =
2 HUDSON-1-74-VALVE ROCKING SHAFT BUSH 1 HUDSON-1-75-INJECTOR MOUNTING BRACKET	1 HUDSON-4-13-BOILER DOME BARREL 1 HUDSON-4-13-BOILER BACK HEAD	2 HUDSON-5-06A-SMOKE DOOR HINGE BLOCK 1 HUDSON-5-06B-SMOKE DOOR HINGE PIN	1 HUDSON-8-40-TDR WATER ACCESS HATCH LID 1 HUDSON-8-41-TDR WATER ACCESS HATCH HINGE PLATE	1 ''''''
1 HUDSON-1-76-FEED PIPE MOUNTING BRACKET	1 HUDSON-4-14-BOILER THROAT PLATE	7 HUDSON-5-07-SMOKE DOOR CLAMP	1 HUDSON-8-42-TDR RUBBER SEALING GROMET	1
1 HUDSON-1-77-BY-PASS VALVE MOUNTING BRACKET 1 HUDSON-1-78-HD FD PP UNION FITTING	1 HUDSON-4-15-BOILER SHELL 1 HUDSON-4-16-BOILER FRONT TUBE PLATE	1 HUDSON-5-08-CHIMNEY BASE 1 HUDSON-5-09-CHIMNEY MOUNTING PLATE	1 HUDSON-8-43-TDR TOP FACIA BOARD 13 HUDSON-8-44-TDR TOP FACIA BOARD BRACKET	<u> </u>
5 HUDSON-1-79-HD FD PP UNION FITTING LOCK NUT 1 HUDSON-1-80-HD FD PP UNION FITTING PIPE NUT	2 HUDSON-4-17-BLIND BUSH 1 HUDSON-4-18-BOILER SOLID STAY	1 HUDSON-5-10-CHIMNEY 1 HUDSON-5-11-CHIMNEY CROWN	1 HUDSON-8-45-PIPE HOLDING ANGLE BRACKET 3 HUDSON-8-46A-TDR FLEXIBLE HOSE-1	<u> </u>
1 HUDSON-1-81-BY-PASS VALVE BODY 1 HUDSON-1-82-BY-PASS VALVE SPINDLE SCREW BODY	1 HUDSON-4-19-BOILER SOLID STAY BACK HEAD SCREW 1 HUDSON-4-20-BOILER SOLID STAY FRONT END SCREW	1 HUDSON-5-12-SNIFTING VALVE MAIN BODY 1 HUDSON-5-13-SNIFTING M10x6 PIPE NUT	1 HUDSON-8-46B-TDR FLEXIBLE HOSE-2 8 HUDSON-8-47-TDR M8x5 PIPE NUT	_
2 HUDSON-1-83-BY-PASS VALVE SPINDLE NUT 1 HUDSON-1-84-BY-PASS VALVE SPINDLE	1 HUDSON-4-21-BLOWER VALVE BODY 1 HUDSON-4-22-BLOWER VALVE SPINDLE SCREW BODY	1 HUDSON-5-14-SNIFTING SPECIAL M14 NUT 2 HUDSON-5-15-SMOKE BOX STAY FERRULE	8 HUDSON-8-48-TDR HOSE CONNECTOR 1 HUDSON-8-49-TDR TOOL BOX]
1 HUDSON-1-85-BY-PASS VALVE PIPE NUT 1 HUDSON-1-86-BY-PASS VALVE FEED PIPE-1	1 HUDSON-4-23-BLOWER VALVE SPINDLE 1 HUDSON-4-24-BLOWER VALVE SPINDLE NUT	1 HUDSON-5-16-SMOKE BOX STAY 1 HUDSON-5-16-SMOKE BOX STAY	1 HUDSON-8-50-TDR TOOL BOX LID + HINGES 2 HUDSON-8-51-TDR DRAW BAR PIN	1
3 HUDSON-1-87- UNION FITTING 1 HUDSON-1-88-STM INJ DELIVERY BODY	1 HUDSON-4-25-BLOWER INTERNAL BOILER TUBE	2 HUDSON-5-17-SMOKE BOX STEP QTY. PART NUMBER	1 HUDSON-8-52-TDR STEPS	1
1 HUDSON-1-89-STM INJ DELIVERY BODY TOP	1 HUDSON-4-26-BLOWER TUBE CONNECTOR 1 HUDSON-4-27-STEAM MANIFOLD BUSH	1 HUDSON-6-01-UNNING BOARD	1 HUDSON-8-52-TDR STEPS	۱
2 HUDSON-1-90-STM INJ DELIVERY BALL VALVE 1 HUDSON-1-91-STM INJ DELIVERY CONE	1 HUDSON-4-28-STEAM MANIFOLD BODY 1 HUDSON-4-29-STEAM MANIFOLD BOTTOM NIPPLE	1 HUDSON-6-01-UNNING BOARD 1 HUDSON-6-02-DRIVERS CABIN SHELL		
1 HUDSON-1-92-STM INJ STEAM INLET BODY 1 HUDSON-1-93-STM INJ STEAM INLET TOP BODY	1 HUDSON-4-30-STEAM MANIFOLD TOP SCREW 1 HUDSON-4-31-STEAM MANIFOLD PUSH ROD	3 HUDSON-6-03-ROOF MOUNTING BRACKET-2 1 HUDSON-6-04-CABIN ROOF		
1 HUDSON-1-94-STM INJ STEAM INLET TOP SCREW 1 HUDSON-1-95-STM INJ STEAM INLET PIPE CONNECTOR	1 HUDSON-4-32-STEAM MANIFOLD BALL VALVE 1 HUDSON-4-33-STEAM MANIFOLD VALVE SPRING	2 HUDSON-6-05-TOP FRONT WINDOW 2 HUDSON-6-06-TOP FRONT WINDOW OUTER TRIM		
1 HUDSON-1-96-STM INJ STEAM COMBINING PORT 1 HUDSON-1-97-SMOKE BOX SADDLE	1 HUDSON-4-34-STEAM MANIFOLD WHISTLE HANDLE	1 HUDSON-6-07-TOP FRONT WINDOW INNER TRIM 4 HUDSON-6-08-SIDE WINDOW		
2 HUDSON-1-102-BOILER HOLDING BRACKET	4 HUDSON-4-35-STEAM MANIFOLD PIPE NUT-1 2 HUDSON-4-36-STEAM MANIFOLD PIPE NUT-2	4 HUDSON-6-09-SIDE WINDOW OUTER TRIM		
1 HUDSON-1-103-REAR APRON 1 HUDSON-1-104-REAR DECK	1 HUDSON-4-37-BLOWER PIPE 1 HUDSON-4-38-INJECTOR STEAM VALVE BODY	2 HUDSON-6-10-SIDE WINDOW INNER TRIM 2 HUDSON-6-11-FRONT DOOR		
1 HUDSON-1-105-DECK SUPPORT BRACKET 4 HUDSON-1-106-M8x4 PIPE NUT	1 HUDSON-4-39-INJECTOR STEAM VALVE SPINDLE SCREW BODY 1 HUDSON-4-40-INJECTOR STEAM VALVE SPINDLE	QTY. PART NUMBER 1 HUDSON-7-01-REAR DOME		
1 HUDSON-1-107-M8x4 LONG PIPE NUT	1 HUDSON-4-41-INJECTOR STEAM VALVE SPINDLE NUT	1 HUDSON-7-02-FRONT DOME-SAND BOX		
NOTES:	1	DRAWING CONTENTS	PPO IFCT No. 03B 09 00	

SON-M3 NUT SON-M3 WASHER SON-M4 DOME NUT SON-M4 NUT SON-M5x6 OIL GRUB SREW SON-M8 NUT SON-M8 WASHER SON-PIN 4.5x15x11+2x7RP SON-PIN 4.5x17x13+2x7RP SON-PIN 4.5x18x14+2x7RP ISON-PIN 4.5x23x19+2x7RP ISON-PIN 4x15x11+2x7RP SON-PIN 4x18x14+2x7RP SON-PIN 4x20x16+2x7RP SON-PIN 4x23x19+2x7RP SON-PIN 5x18 WHEEL PIN

OTHER ABBREVIATIONS PF = PRESS FIT PCD = PITCH CIRCLE DIAMETER RM = REAMHEX = HEXACON, 6SIDED CP = COMPRESSED KNL = KNURLED (n-xxx) = PART NUMBER

SA-n-xxx = SUB ASSEMBLY-n-xxx

LL DRAWINGS ARE IN METRIC MEASUREMENTS

L ENGINEERING PRACTICES SHALL BE APPLIED WITH REGARDS TO HOLE AND SHAFT TOLERANCES. HERE SCREWS OR BOLTS ARE USED THE CLEARANCE HOLES SHALL BE APPROXIMATELY 5% TO 8% GER THAN THE MATCHING TAPPED HOLE

REFERABLY ALL TAPPED HOLES AND MATCHING SCREWS AND/OR BOLTS TO BE METRIC FINE (MF) ATERIALS SPECIFIED ON THE DRAWINGS ARE INDICATIVE ONLY. THE BUILDER CAN MAKE HIS/HER OWN

QUIRE AT THE APPROPRIATE AUTHORITIES WHETHER OR NOT THIS BOILER REQUIRES A PRESSURE

L CONNECTIONS/JOINTS WHICH HAVE STEAM PRESSURE APPLIED TO IT SHALL BE SILVER/HARD.

IMPRESSION SPRINGS ARE DRAWN IN COMPRESSED STATE (CP), UNCOMPRESSED STATE IS APPROX TO 60% LONGER THEN COMPRESSED STATE.

HERE PREFERRED SCREW, BOLTED OR RIVETED CONNECTIONS CAN BE OMITTED AND PARTS CAN BE DED TOGETHER BY USING EITHER HIGH STRENGTH GLUE, EPOXY RESIN, OR SOLDER. ARTS WHICH ARE DIRECTLY EXPOSED TO STEAM AND/OR WATER SHOULD BE CONSTRUCTED USING

-FERROUS OR NON CORROSIVE MATERIAL SUCH AS BRASS, BRONZE, GUNMETAL, STAINLESS STEEL,

HE ORDER IN WHICH THE PARTS/COMPONENTS ARE MANUFACTURED AND THE MODEL IS ASSEMBLED NTIRELY LEFT TO THE BUILDER/MODEL MAKER.

HE COLOUR SCHEME IS ENTIRELY LEFT TO THE BUILDER. RRORS AND/OR OMISSIONS MAY OCCUR IN THE DRAWINGS, DO NOT HESITATE TO CONTACT ME SO THE ERRORS/OMISSIONS CAN BE RECTIFIED.

ALL PIPES AND HOSES TO BE CHECKED/MEASURED BY THE BUILDER FOR THE CORRECT/REQUIRED

MODEL IS BASED ON SOME DRAWINGS AND PICTURES WHICH I FOUND ON THE INTERNET. MODEL DOES NEITHER HAVE ANY BRAKE SYSTEM DESIGNED IN THE LOCOMOTIVE NOR IN THE TENDER. HE BUILDER WISHES TO INCORPORATE A BRAKING SYSTEM THEN ADDITIONAL DESIGN SHOULD BE MADE HE BUILDER HIMSELF AND ADDITIONS AND/OR ALTERATION MAY HAVE TO BE MADE TO THIS DESIGN. ESTIMATED MAXIMUM BOILER WORKING PRESSURE IS 80PSI (5.5BAR). THE BOILER SHOULD BE SURE TESTED, USING WATER PRESSURE, TO TWICE THE MAXIMUM ALLOWABLE WORKING PRESSURE. HIS MODEL I HAVE DELIBERALLY OMMITTED ALL BOLTS, SCREWS, RIVETS AND NUTS. ASE REFER TO NOTE 8 ABOVE.

ERIAL ABBREVIATIONS:

= ALUMINIUM

= BRASS

= BRONZE OR GUNMETAL (BRZ/GM) = CAST IRON

= COPPER

= GRAPHITE = MILD STEEL/BRIGHT MILD STEEL

S = SILVER STEEL OR STAINLESS STEEL

= SPRING STEEL

= SYNTHETIC MATERIAL SUCH AS VETON, NYLON, TEFLON, FIBRE OR RUBBER IN GENERAL SYNTHETIC MATERIALS SOULD BE ABLE TO WITHSTAND THE HEAT AND PRESSURE(S) APPLIED TO THEM.

= POLYETHER ETHER KETONE nnn MEANS THAT EITHER MATERIAL CAN BE USED

PLEASE NOTE THIS IS AN A2 SIZE SHEET

WORKING MODEL OF A OLD AMERICAN STEAM BILL OF MATERIALS & NOTES LOCO CALLED "HUDSON" (5"GAUGE)

PROJECT No 07B-09-00

JDW DRAUGHTING SERVICES

PROJECTION **(1)**

JDWDS | MODEL SCALE: 1:11.3 | DWG SCALE:1:1 @ A2 OR AS SHOWN DATE OCTOBER-2015 | Copyright @ J.A.M. DE WAAL PAPAKURA NZ

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