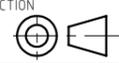


A3	TITLE	EXPERIMENTAL HORIZONTAL SINGLE CYLINDER STEAM ENGINE WITH INLINE VALVE CHAMBER. GENERAL ARRANGEMENT

REV	DESCRIPTION	DATE
A	ISSUED TO NVM	

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 PAKAPURA NEW ZEALAND
 TEL/FAX 0064-09-2988815
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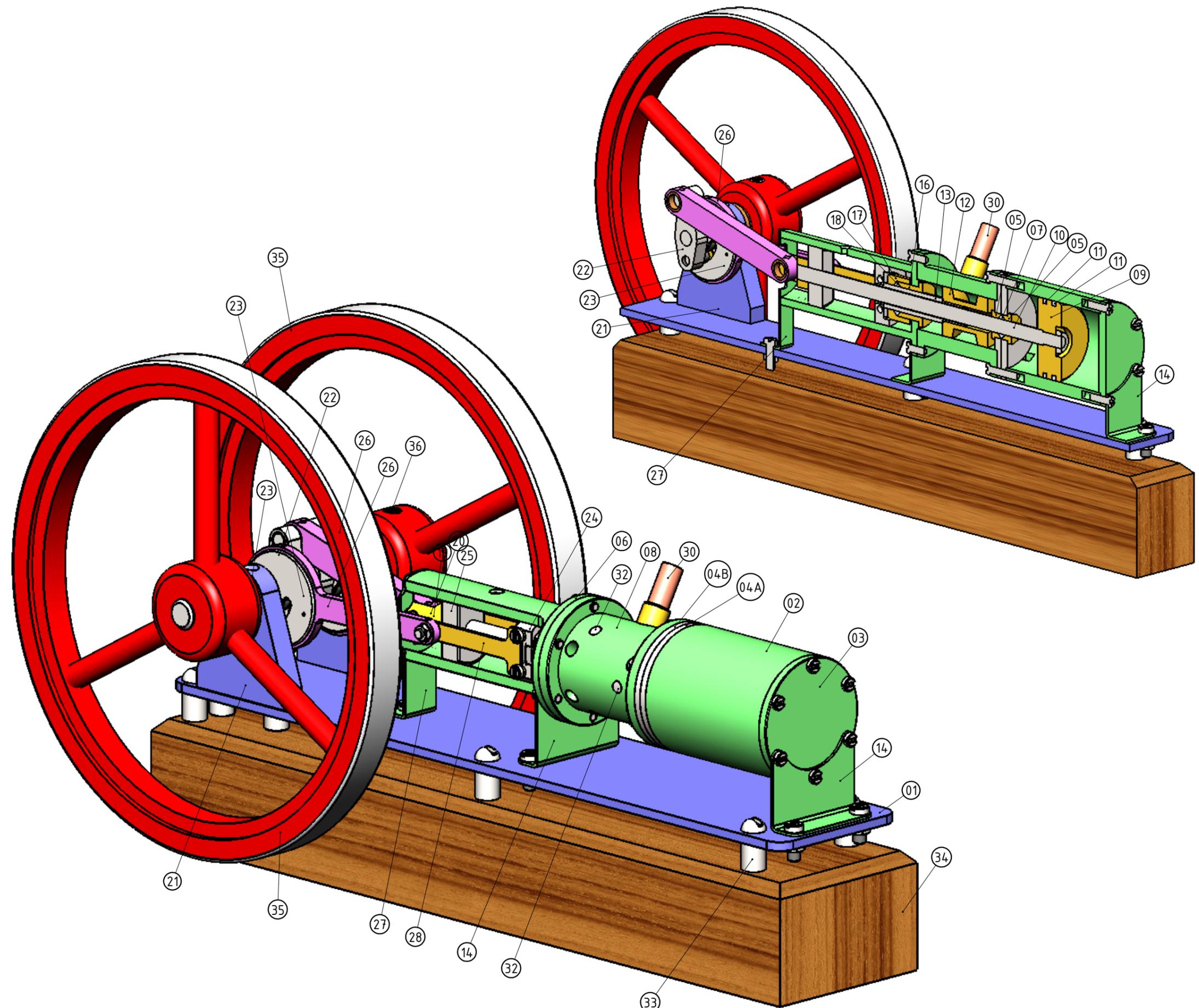
DRAWN BY
 J.A.M. DE WAAL
 DATE
 MAY 2009

PROJECTION

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DRAWING NUMBER
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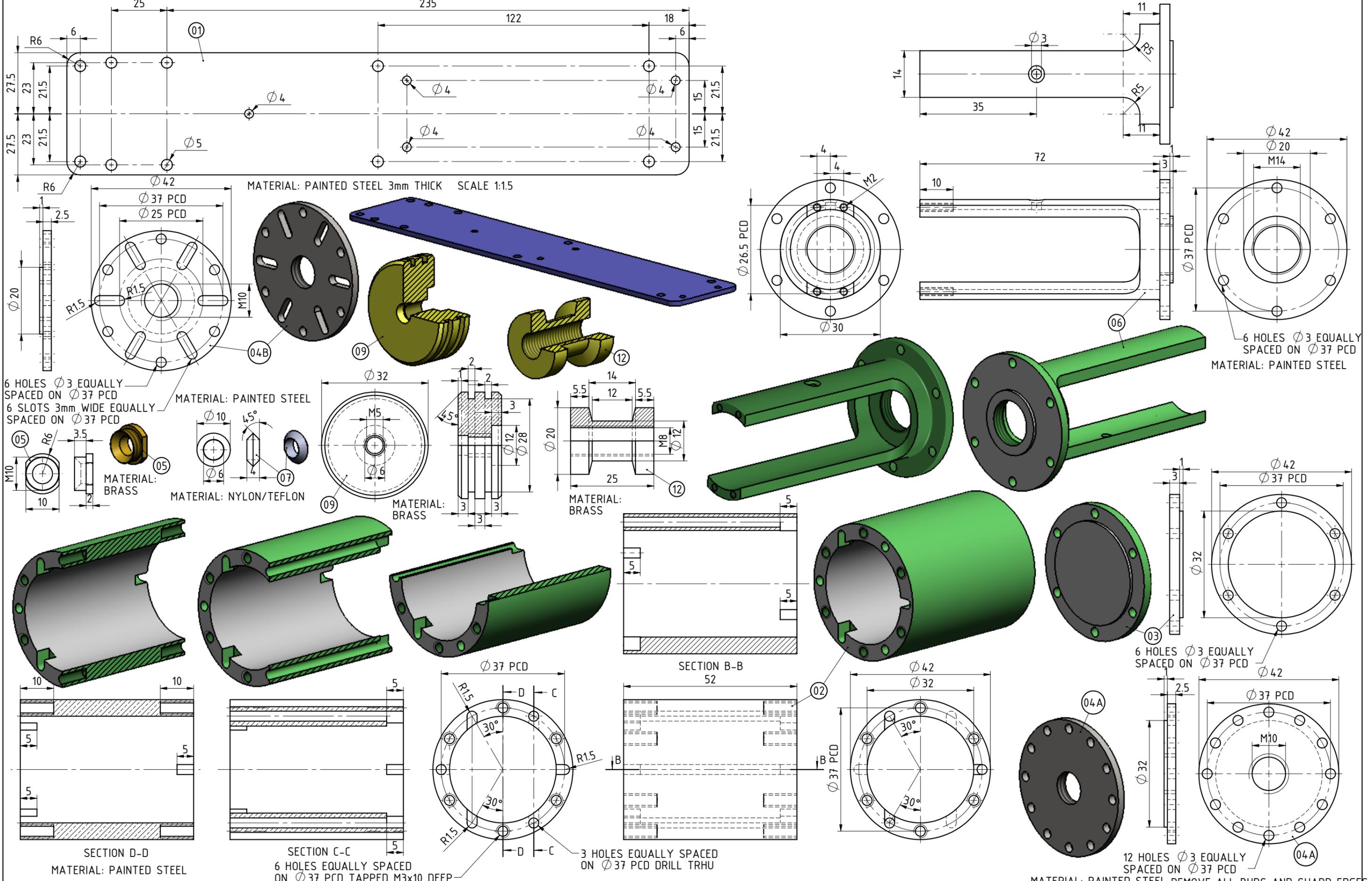
QTY.	PART NUMBER
1	CSHIV-01-STEEL BASE PLATE
1	CSHIV-02-CYLINDER
1	CSHIV-03-CYLINDER FRONT LID
1	CSHIV-04A-CYLINDER SEPARATION PLATE
1	CSHIV-04B-VALVE CHAMBER SEPARATION PLATE
2	CSHIV-05-PISTON ROD NIPPLE
1	CSHIV-06-VALVE CHAMBER LID
1	CSHIV-07-PISTON ROD SEAL
1	CSHIV-08-VALVE CHAMBER
1	CSHIV-09-PISTON
1	CSHIV-10-PISTON ROD
2	CSHIV-11-PISTON RING
1	CSHIV-12-VALVE
1	CSHIV-13-VALVE ROD
2	CSHIV-14-CYLINDER SUPPORT BRACKET
1	CSHIV-16-VALVE ROD NIPPLE
1	CSHIV-17-VALVE ROD NIPPLE NUT
1	CSHIV-18-VALVE ROD SEAL
1	CSHIV-19-PISTON ROD YOKE
1	CSHIV-20-CON ROD
2	CSHIV-21-CRANKSHAFT SUPPORT
1	CSHIV-22-CRANKSHAFT
2	CSHIV-23-EXCENTRIC
1	CSHIV-24-VALVE ROD GUIDE BLOCK
1	CSHIV-25-PISTON ROD GUIDE BLOCK
2	CSHIV-26-EXCENTRIC HOUSING
1	CSHIV-27-GUIDE SUPPORT
2	CSHIV-28-VALVE CON ROD
1	CSHIV-30-INLET PIPE AND NIPPLE
6	CSHIV-32-PORT PLUG
6	CSHIV-33-BASEPLATE PILLAR
1	CSHIV-34-WOOD BASE
2	CSHIV-35-FLYWHEEL
2	CSHIV-36-FLYWHEEL GRUB SCREW
2	CSHIV-37-EXCENTRIC WASHER
4	CSHIV-M2x8 CYLINDERHEAD SCREW
2	CSHIV-M3 NUT
6	CSHIV-M3x10 CYLINDERHEAD SCREW
6	CSHIV-M3x15 CYLINDERHEAD SCREW
10	CSHIV-M3x8 CYLINDERHEAD SCREW
5	CSHIV-M4 NUT
2	CSHIV-M4x10
5	CSHIV-M4x10 CYLINDERHEAD SCREW
1	CSHIV-M5 NUT
4	CSHIV-M5x10 ALLEN KEY
6	CSHIV-WOOD SCREW



REMOVE ALL BURS AND SHARP EDGES

A3 TITLE
 EXPERIMENTAL HORIZONTAL SINGLE CYLINDER STEAM ENGINE WITH INLINE VALVE CHAMBER. BILL OF MATERIAL

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REV	DESCRIPTION	DATE	SCALE 1:1 or AS SHOWN	CAD FILE	REV A
A	ISSUED TO NVM		DATE MAY 2009		



A3 TITLE EXPERIMENTAL HORIZONTAL SINGLE CYLINDER STEAM ENGINE WITH INLINE VALVE CHAMBER. COMPONENTS

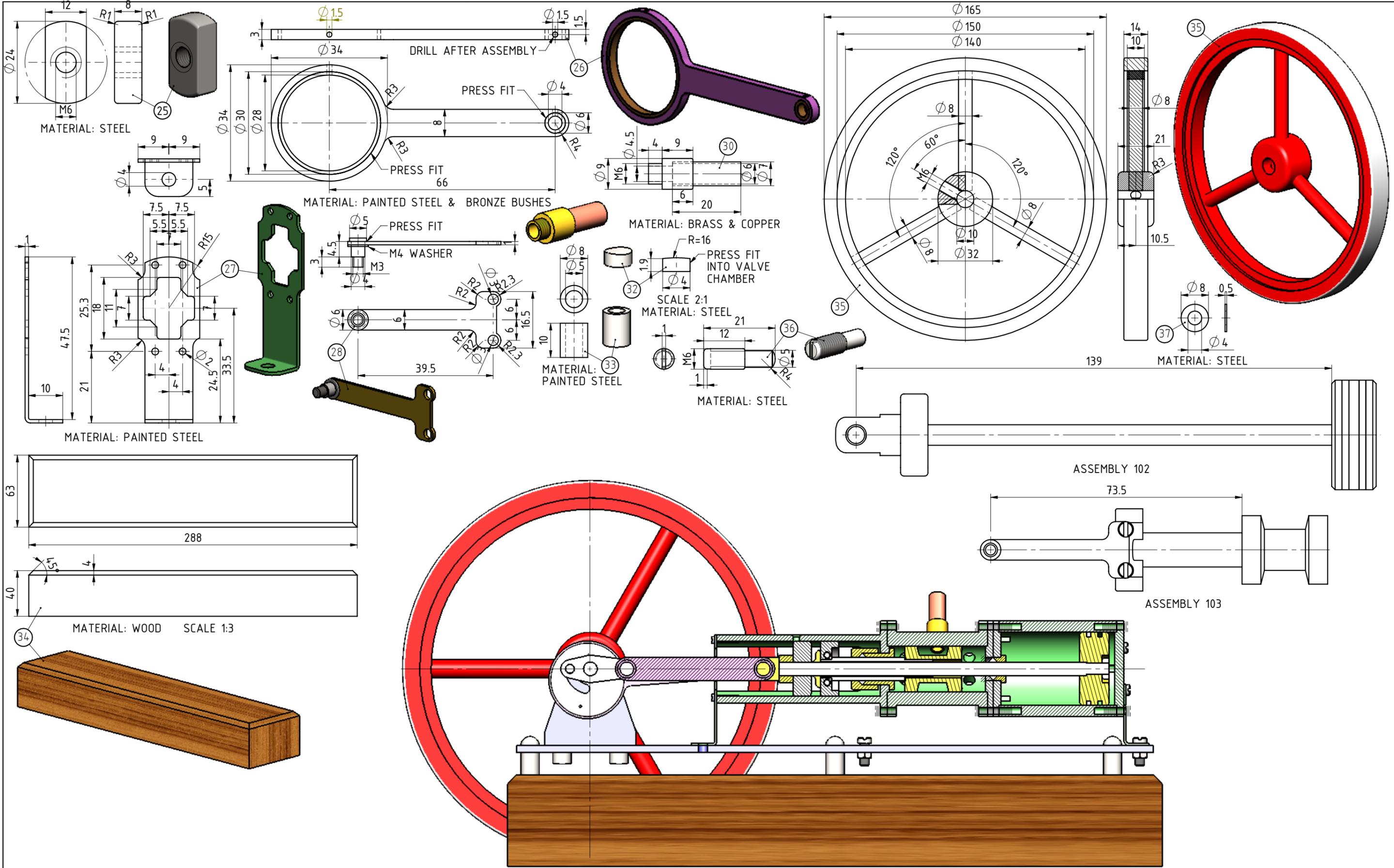
ISSUED TO	NVM	DATE	
REV	DESCRIPTION	DATE	

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SCALE 1:1 or AS SHOWN

DRAWING NUMBER CSHIV
SHEET 02
REV A



A3 TITLE
 EXPERIMENTAL HORIZONTAL SINGLE CYLINDER STEAM ENGINE WITH INLINE VALVE CHAMBER. COMPONENTS

REV	DESCRIPTION	DATE
A	ISSUED TO NVM	

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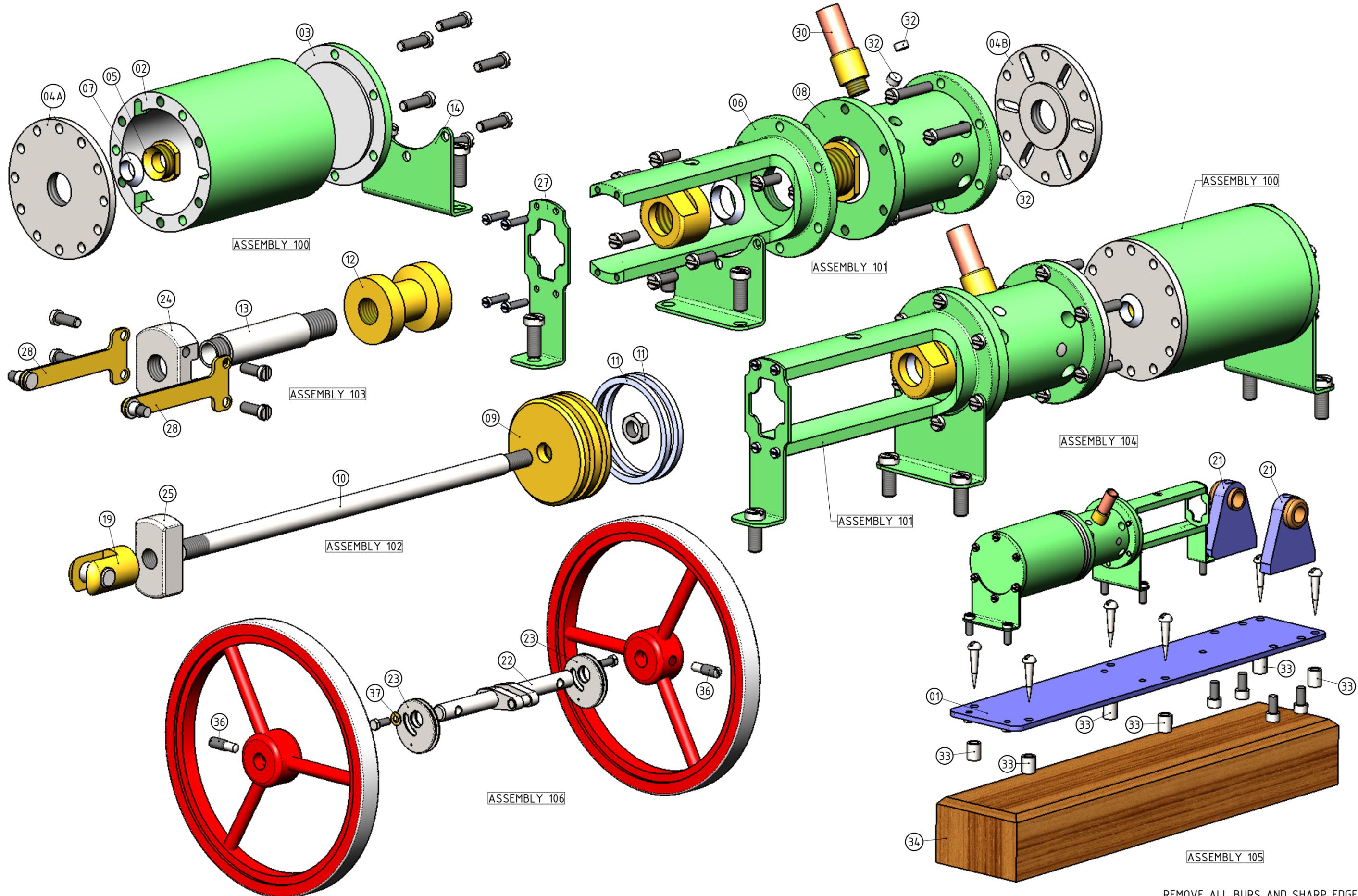
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DRAWING NUMBER
 CSHIV
 CAD FILE

SHEET
 04
 REV
 A

REMOVE ALL BURS AND SHARP EDGES



REMOVE ALL BURS AND SHARP EDGES

A3	TITLE	EXPERIMENTAL HORIZONTAL SINGLE CYLINDER STEAM ENGINE WITH INLINE VALVE CHAMBER. EXPLODED ASSEMBLIES		

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PROJECTION 
SCALE N.T.S

DRAWING NUMBER CSHIV	SHEET 05
CAD FILE	REV A