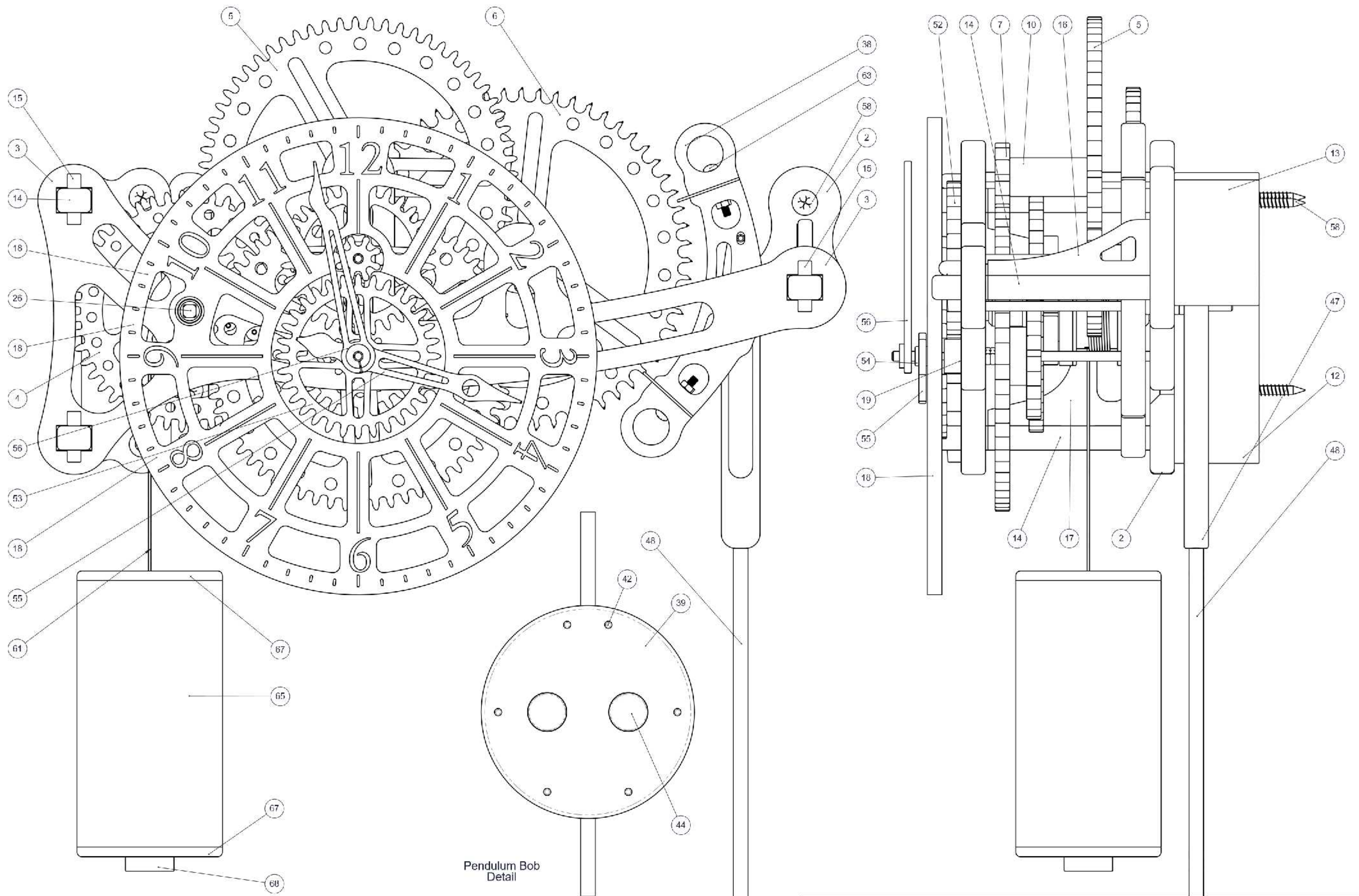


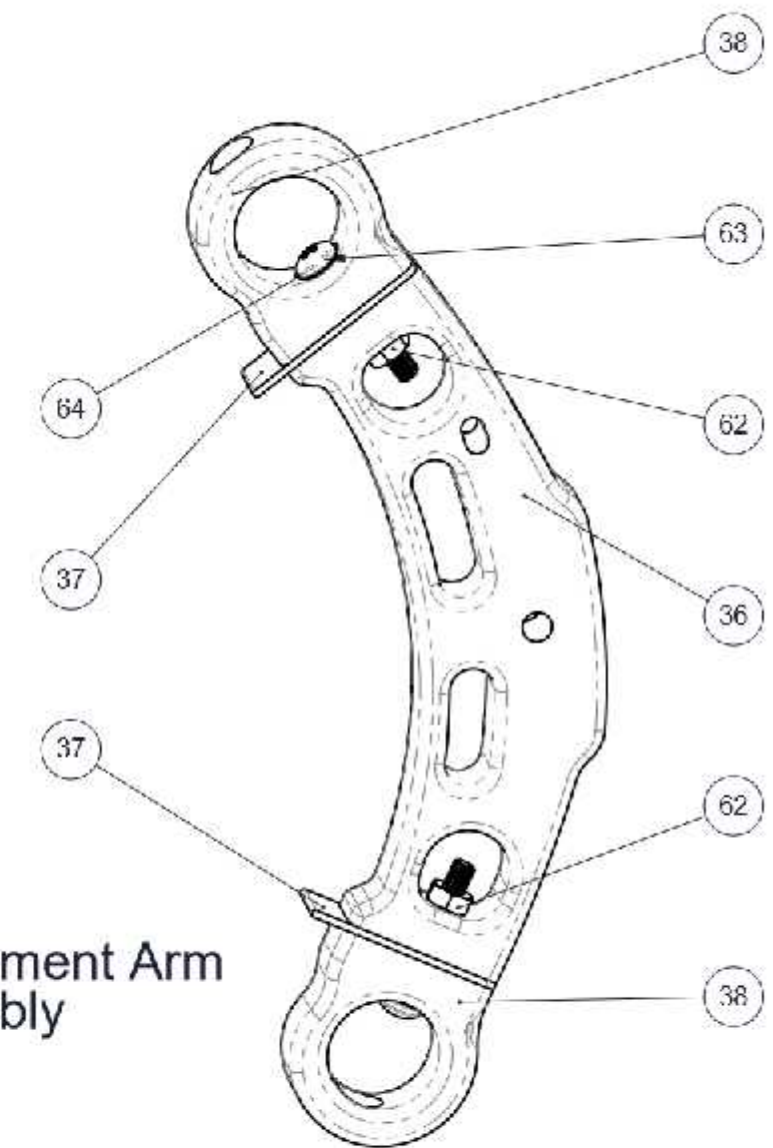


Std 1 of 12 Shis	A2	Clock 45 - Starter Clock - 2	
Not to Scale Unless otherwise stated		All dimensions in mm and (inches) 3rd Angle projection	Designed by: Brian law November 2021 www.woodenlocks.co.uk

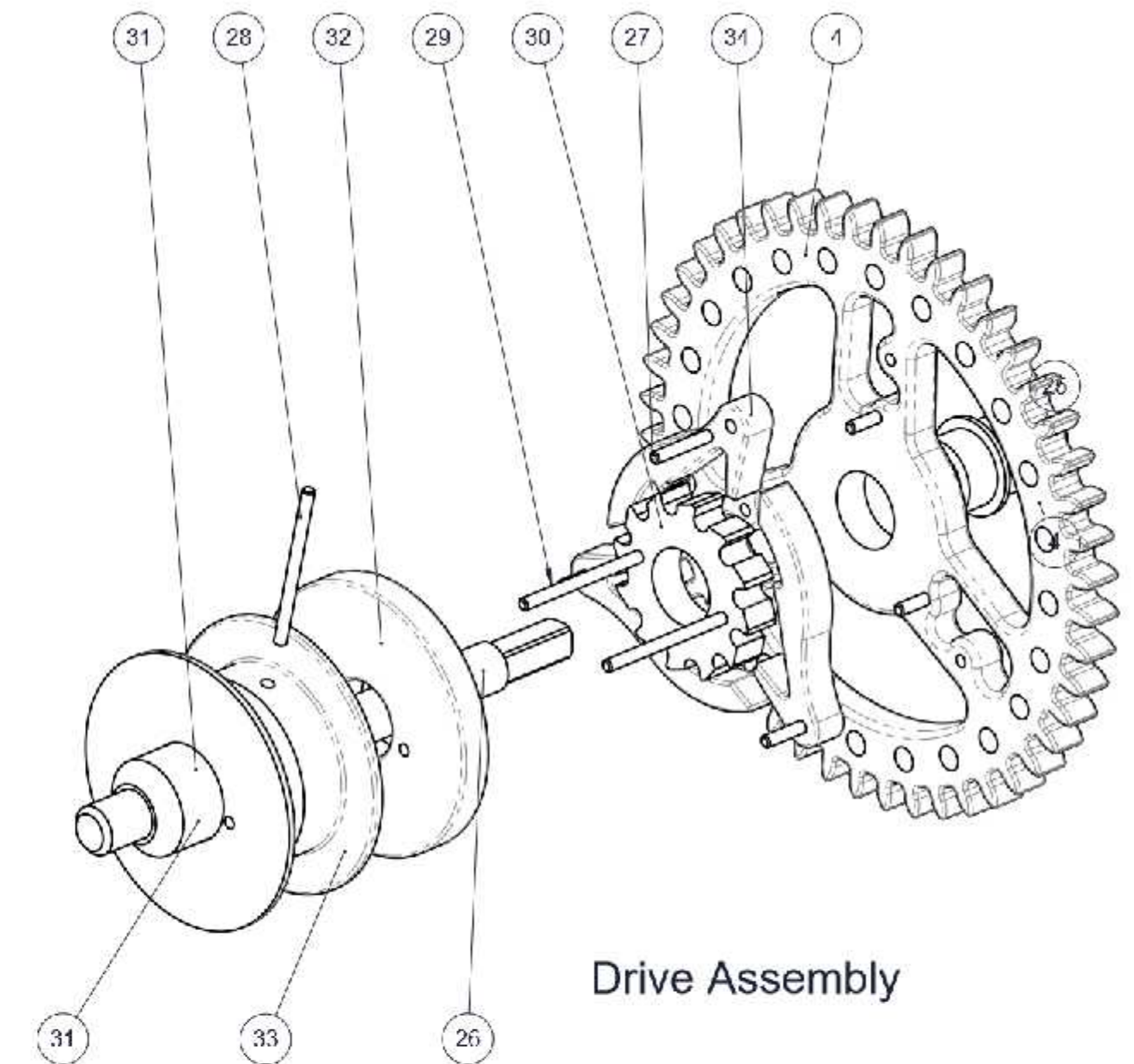
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
2	Back Frame	Wood 10 mm thk	1
3	Front Frame	Wood 10 mm thk	1
4	Gear-Drive- 48 Teeth	Wood 6mm thk	1
5	Gear 64 Teeth	Wood 6mm thk	1
6	Escape wheel-60 Teeth	Wood 6mm thk	1
7	Gear 12 Teeth	Wood 6 mm thk	1
8	Gear 62 Teeth	Wood 6mm thk	1
9	Gear-11-Teeth	Wood 6 mm thk	1
10	Gear Spacer 33	Wood Ø16 mm X 33.5 long	1
11	Gear Spacer 10	Wood Ø12 mm x 10 long	1
12	Wall Spacer	Wood 35 mm thk	1
13	Wall Spacer-short	Wood 35 mm thk	1
14	Frame spacer	Wood 10 mm thk	3
15	Wedge	Wood 6 mm thk	3
16	Brace-Right	Wood 6 mm thk	1
17	Brace-Left	Wood 6 mm thk	1
18	Dial-Arabic-Numerals	Wood 6 mm thk	1
19	Dial Spacer	Wood 8 mm thk	2
20	Geartrain 1 Pin	Steel Ø2	2
21	Minute Shaft	Steel Ø4	1
22	Endstop-4mm	Plastic Ø8 x 2 mm	6
23	Gear Spacer 7	Wood 7 mm thk	1
24	Gear Shaft	Steel Ø4	2
25	Winder-Spacer	Wood Ø16 mm	1
26	Drive-Shaft	Brass Ø8 mm x 99mm	1
27	Pawl-Pin	Steel Ø2 mm	6
28	Pin-Drum	Steel Ø2 mm x 29mm	1
29	Drive-Pin	Steel Ø2 mm x 32mm	2
30	Ratchet	Wood 6mm thk	1
31	Shaft-spacer-Back	Wood Ø16	1
32	Shaft-spacer-Front	Wood 6 mm thk	1
33	Drum	Wood 20mm thk OR 2x10mm thk	1
34	Winder-Shaft-Pawl	Wood 6mm thk	3

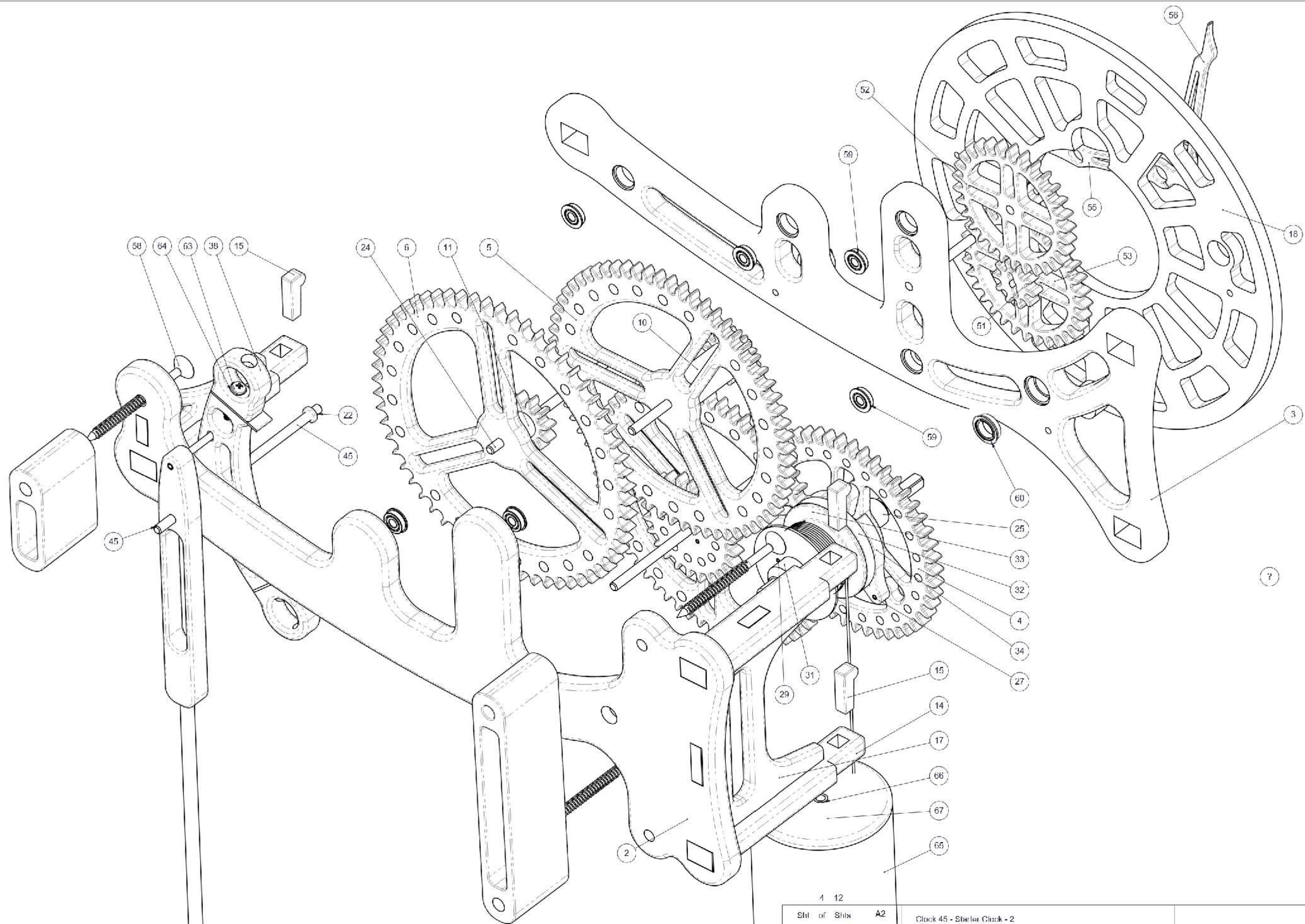
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
35	Gear 24 Teeth	Wood 6 mm thk	1
36	Escapement arm	Wood 6mm thk	1
37	Pallet	Plastic 1mm thk	2
38	Pallet-clamp-Round	Wood 10 mm thk	2
39	Pendulum Bob Bottom	Wood 6mm thk	1
40	Pendulum Bob Centre	Wood 6mm thk	1
41	Pendulum Bob Lock	Wood 6mm thk	1
42	Pendulum Bob Pin	Steel Ø2x18mm	6
43	Pendulum Bob Top	Wood 6mm thk	1
44	Pendulum Bob Weight	Brass Ø16	2
45	Escape-Pendulum Pivot	Steel Ø4 x 105mm	1
46	Pendulum Connect pin	Steel Ø4 x 39mm	1
47	Pendulum Pivot Block	Wood 12 mm thk	1
48	Pendulum Rod	Carbon Fibre tube Ø6 x 1100 mm	1
49	Hour Gear Pivot	Steel Ø4 x 25mm	1
50	Hour-Gears-8-Teeth	Wood 6mm thk	1
51	Hour-Gears-10-Teeth	Wood 6mm thk	1
52	Hour-Gears-30-Teeth	Wood 6mm thk	1
53	Hour-Gears-32-Teeth	Wood 6mm thk	1
54	Hour-Tube	Wood Ø10 x 18 mm	1
55	Hour-hand	Plastic 4 mm thk	1
56	Minute-Hand	Plastic 3 thk	1
57	Dial Pin	Steel Ø3 x 22mm	2
58	Woodscrew long	Brass No8x 65 mm	3
59	BALL BEARING-4-10-4	MF104ZZ 4X10X4mm	8
60	Bearing-Flanged-8mm-12mm	Ø8mmxØ14mmx4mm	2
61	Weight Cord	Blind Cord Ø0.5 mm	1
62	M3 HEX NUT		2
63	90116A169	Pan Headed Screw 3 x 16 mm	2
64	M3-WASHER		2
65	Weight Tube	Perspex Tube Ø60x110mm	1
66	Weight-inner Tube	Perspex Tube Ø6x118	1
67	Weight End Plug	Wood 6 mm thk	2
68	Weight Tie-off	Plastic 4 mm thk	1

Escapement Arm Assembly



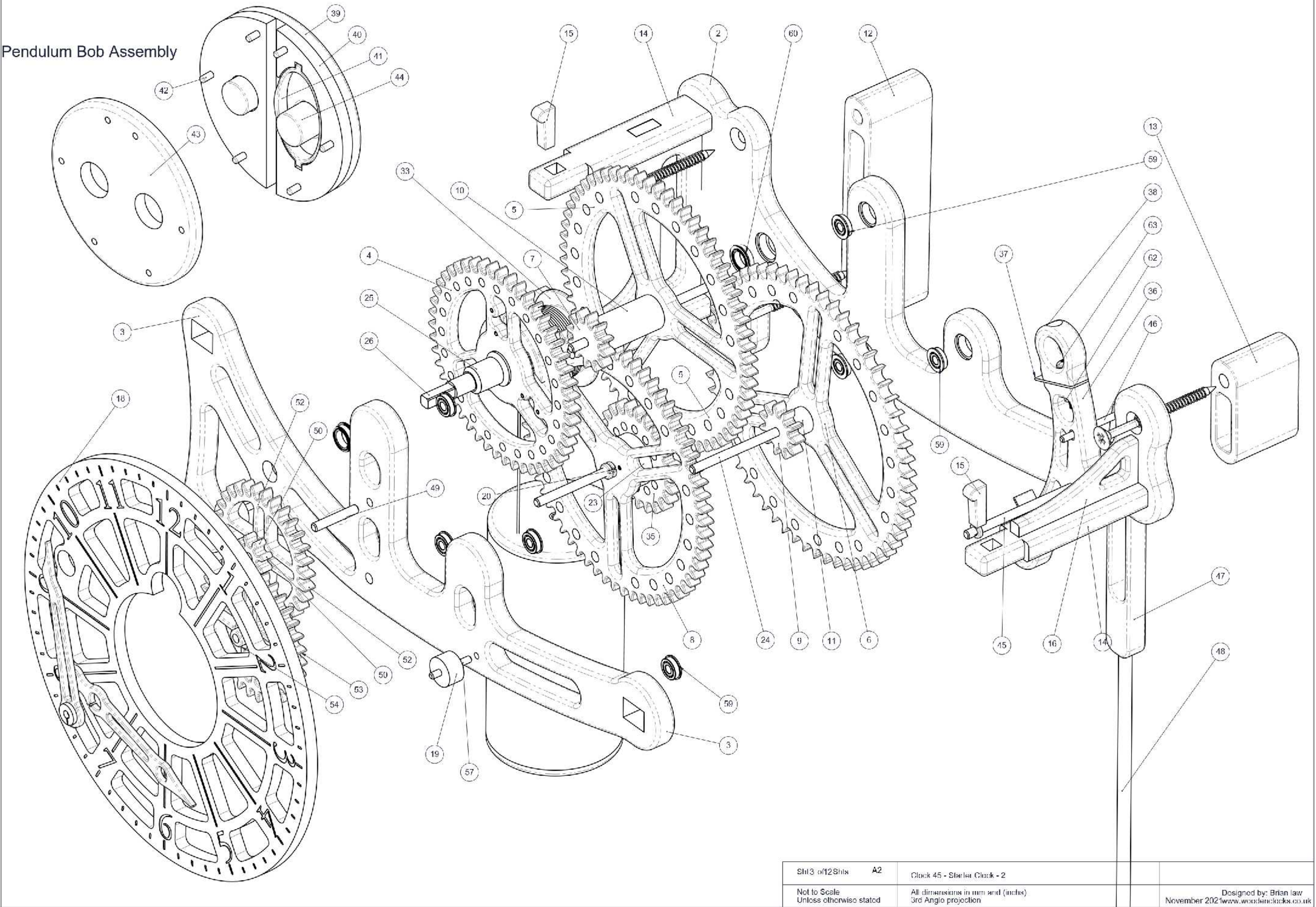
Drive Assembly

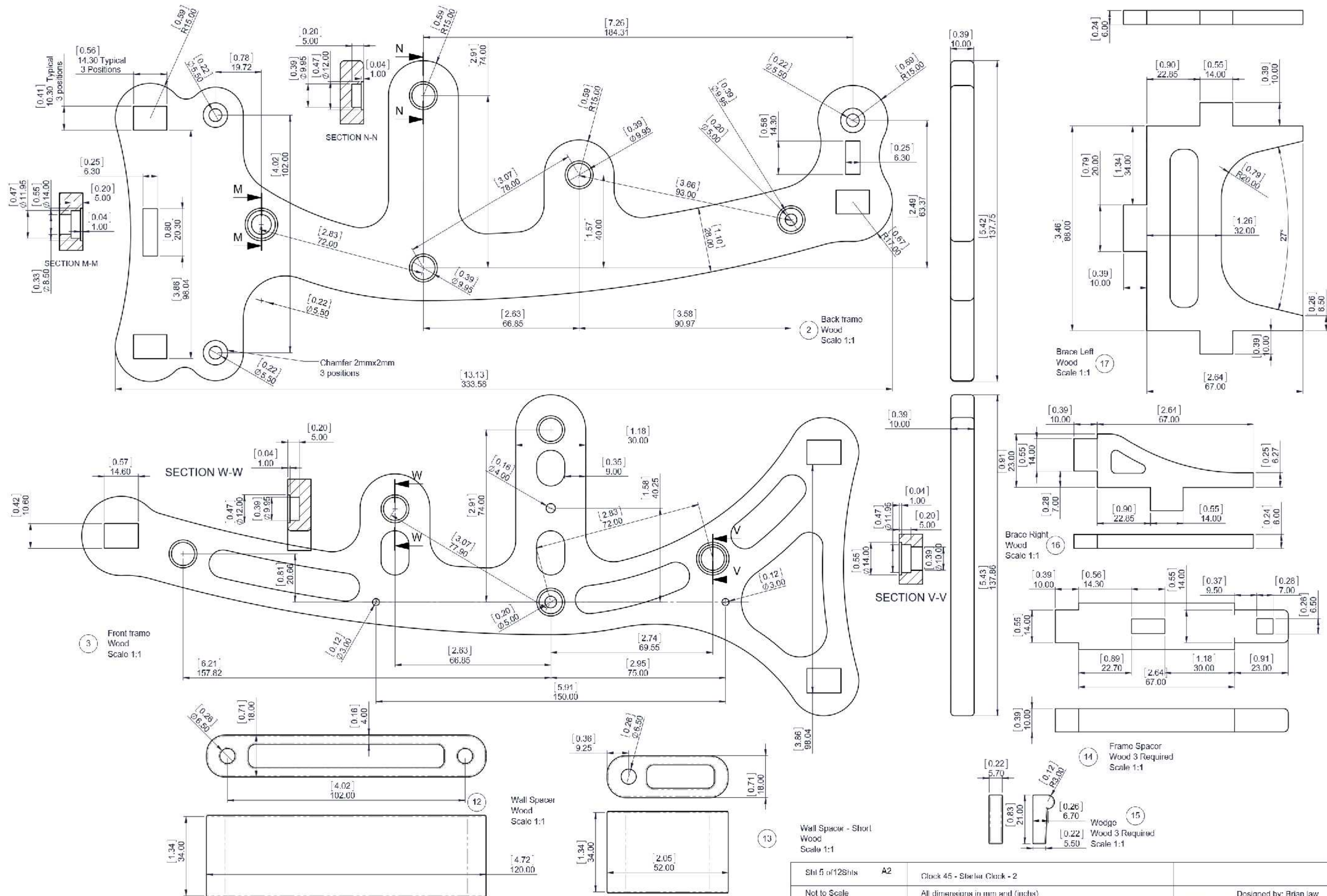


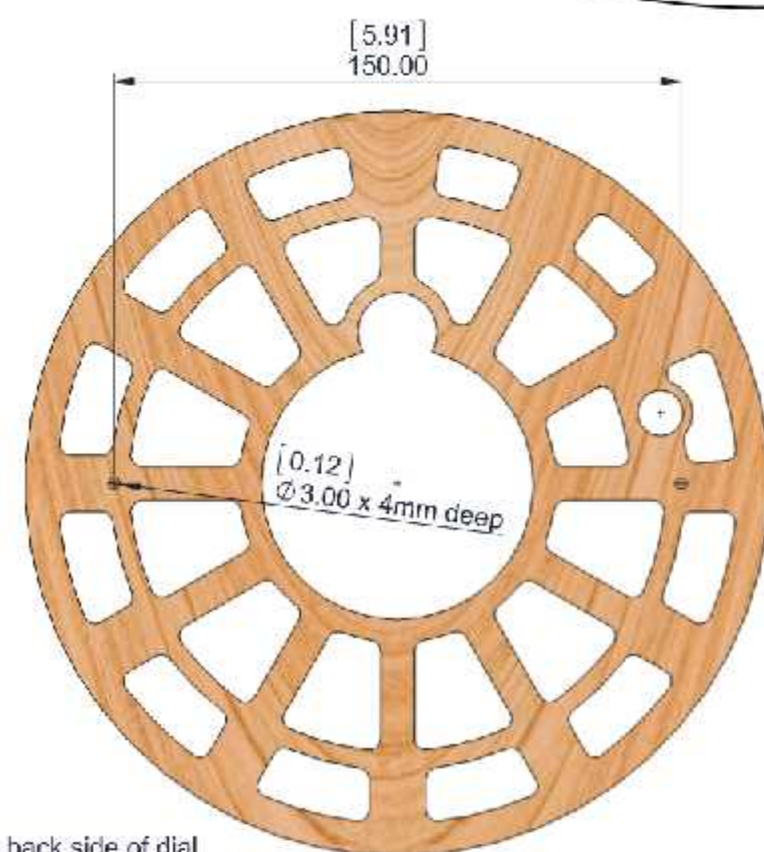
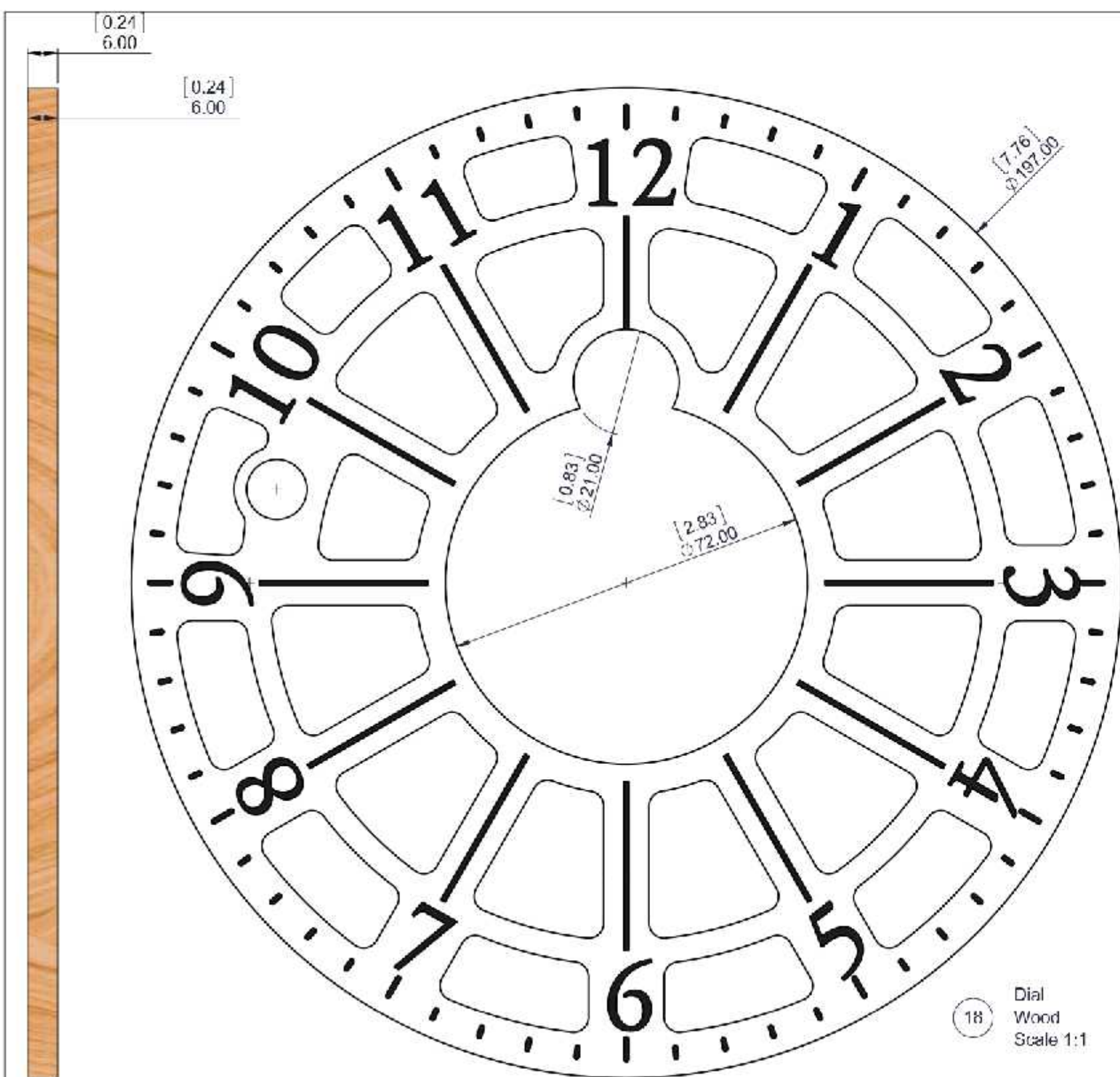


1	12		
Shl	of	Shls	A2
Clock 45 - Starter Clock - 2			
Not to Scale		All dimensions in mm and (inches)	
Unless otherwise stated		3rd Angle projection	
		Designed by: Brian law	
		November 2021www.woodenclucks.co.uk	

Pendulum Bob Assembly

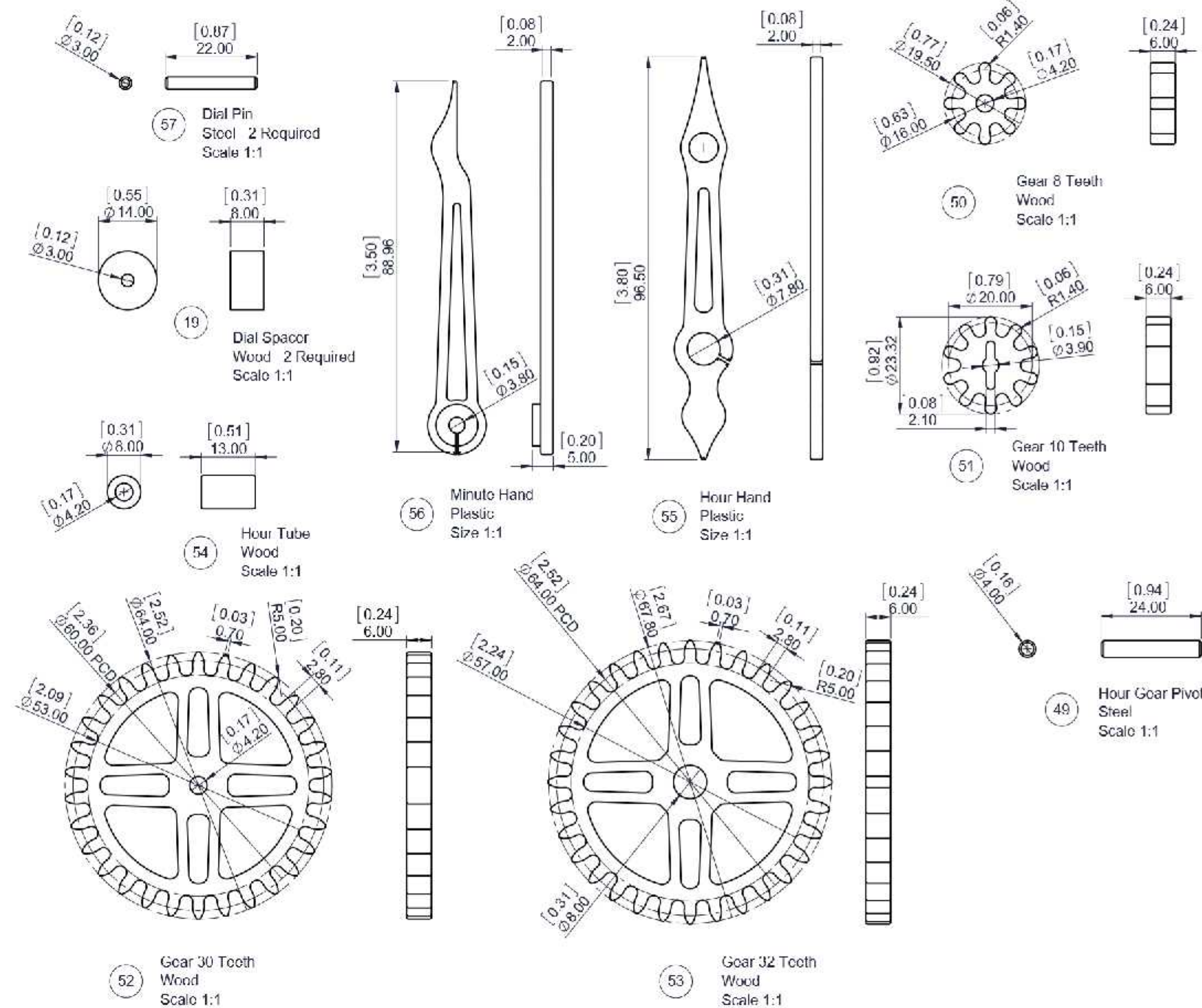


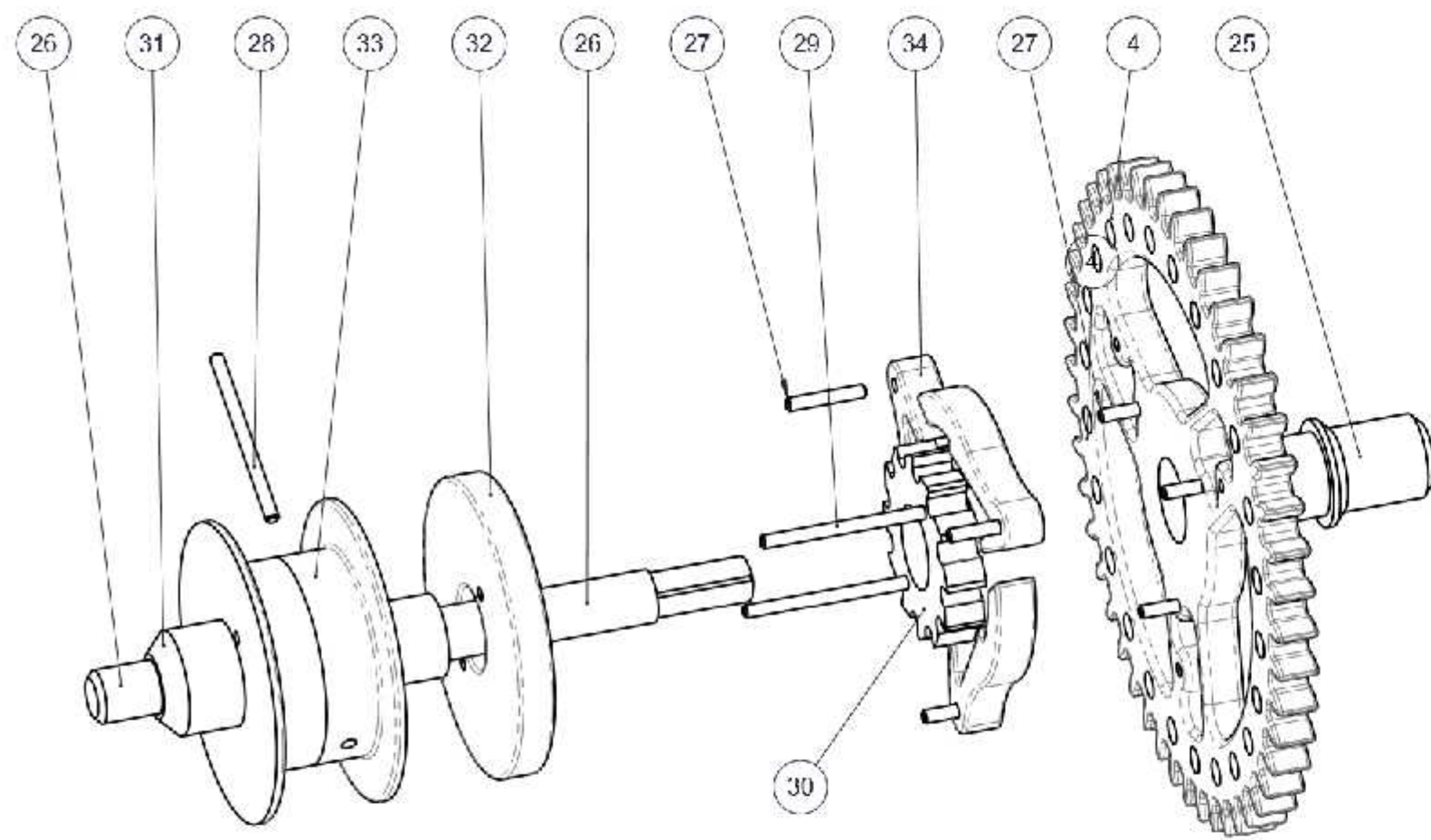




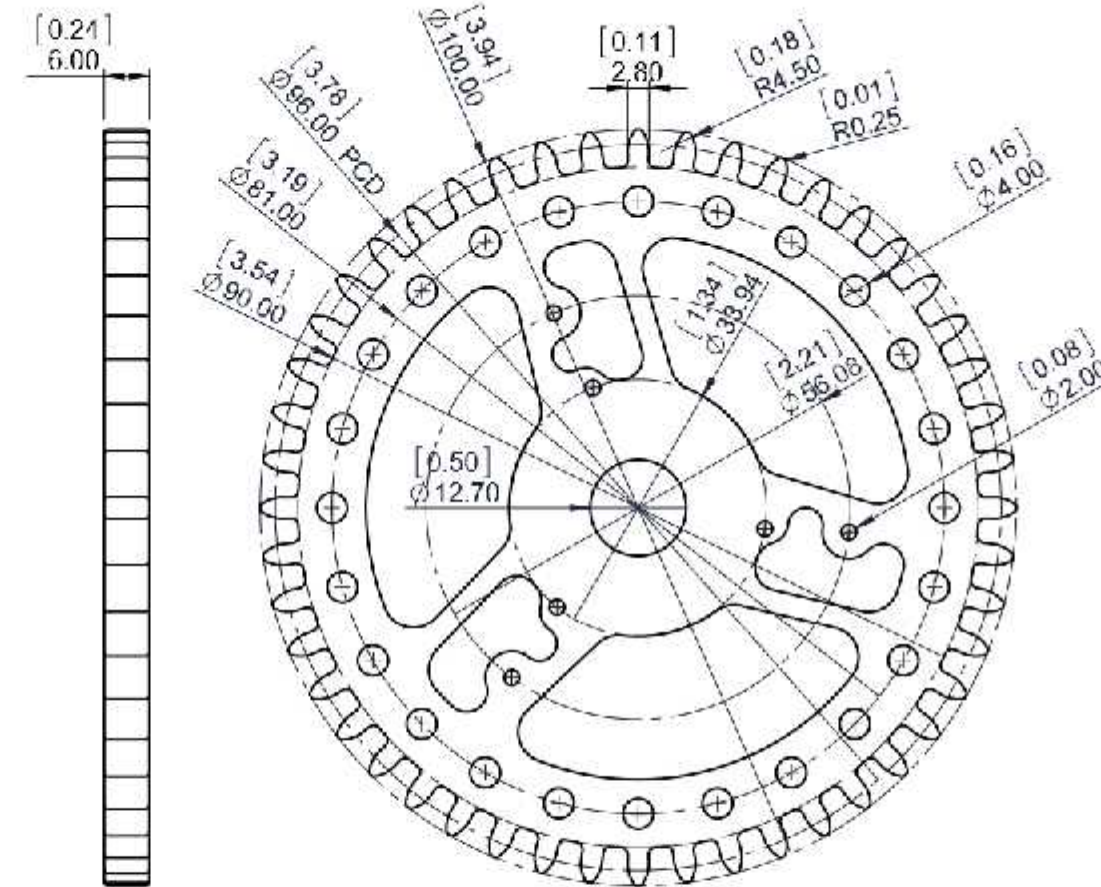
Note!
The Numerals and lines can be either engraved in, or stand proud depending on the equipment you are using.

View on back side of dial
showing two Pin holes Ø3.
May be best to attach the dial
to the front frame and drill through
to ensure correct alignment

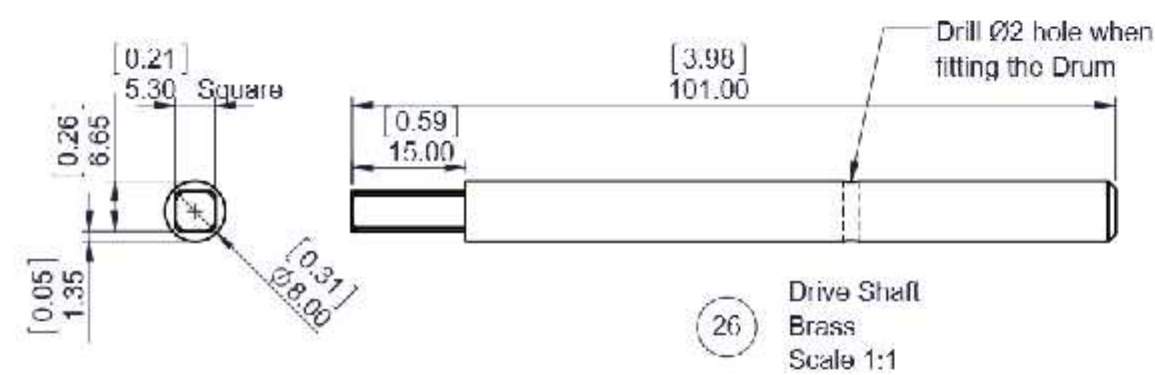




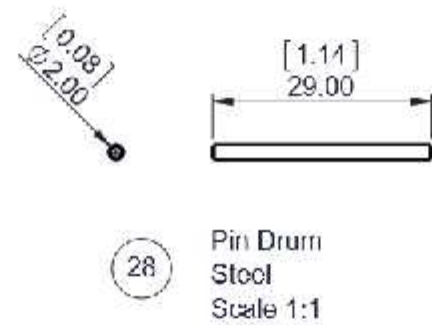
Drive Assembly



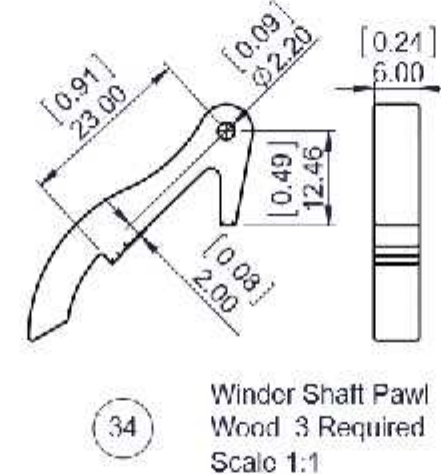
4 Goar Drive 48 Tooth
Wood
Scale 1:1



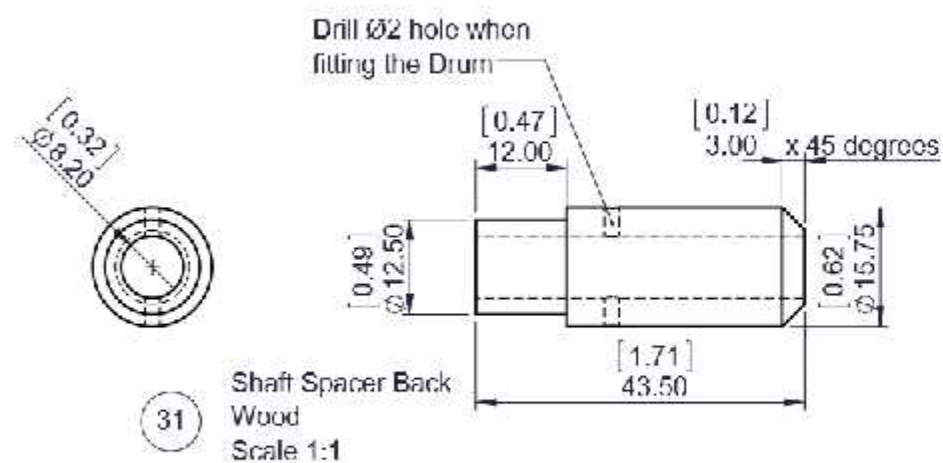
26 Drive Shaft
Brass
Scale 1:1



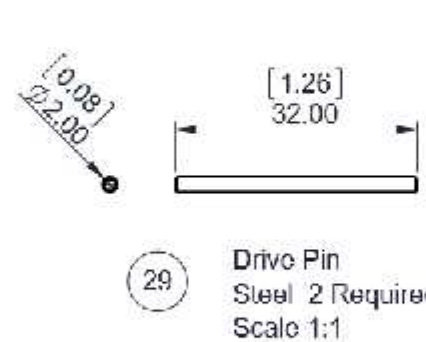
28 Pin Drum
Stool
Scale 1:1



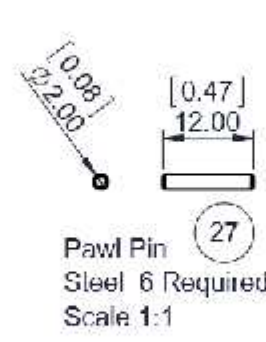
34 Winder Shaft Pawl
Wood 3 Required
Scale 1:1



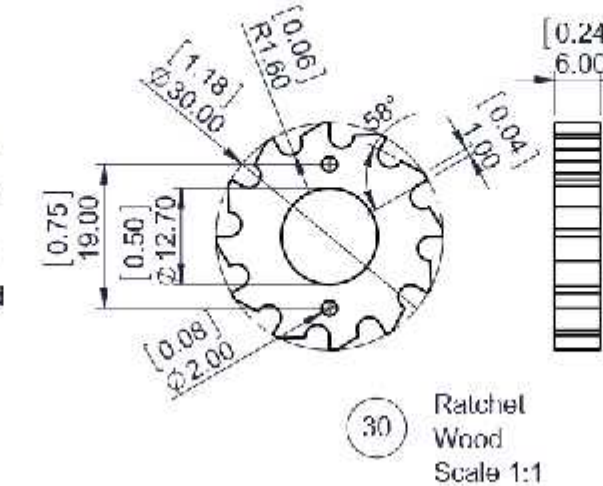
31 Shaft Spacer Back
Wood
Scale 1:1



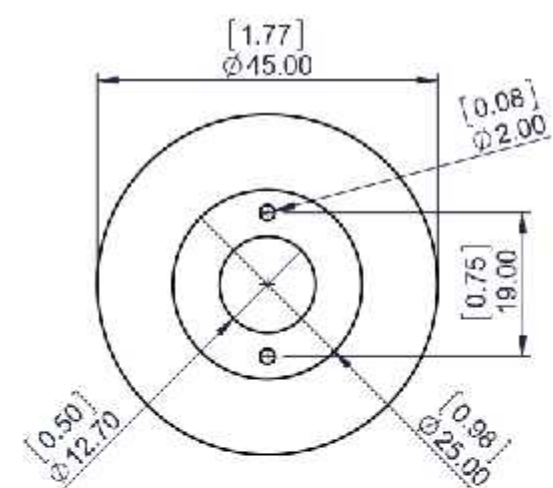
29 Drive Pin
Steel 2 Required
Scale 1:1



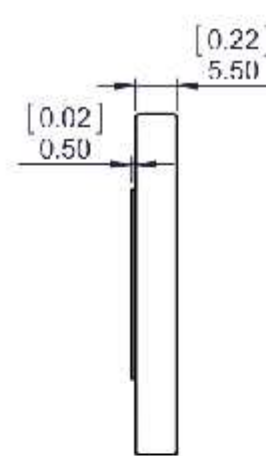
27 Pawl Pin
Steel 6 Required
Scale 1:1



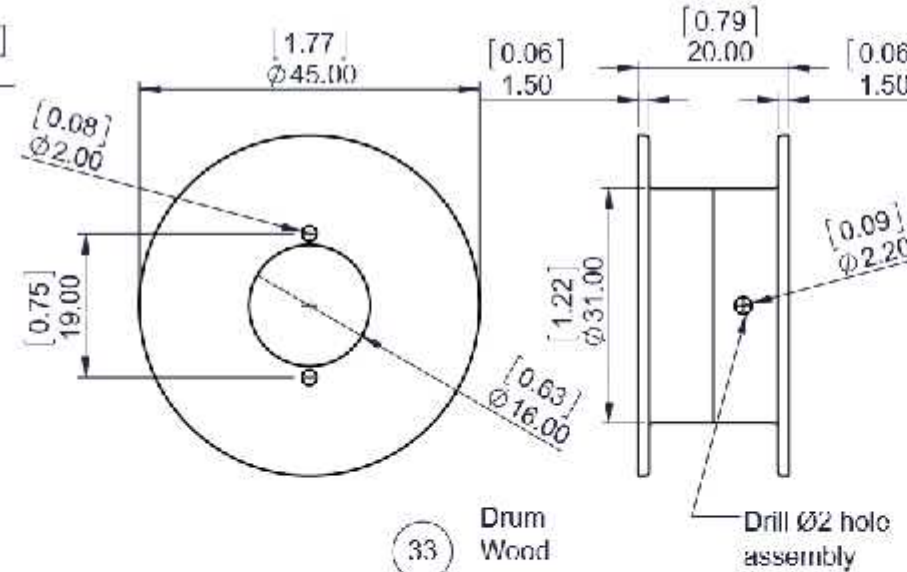
30 Ratchet
Wood
Scale 1:1



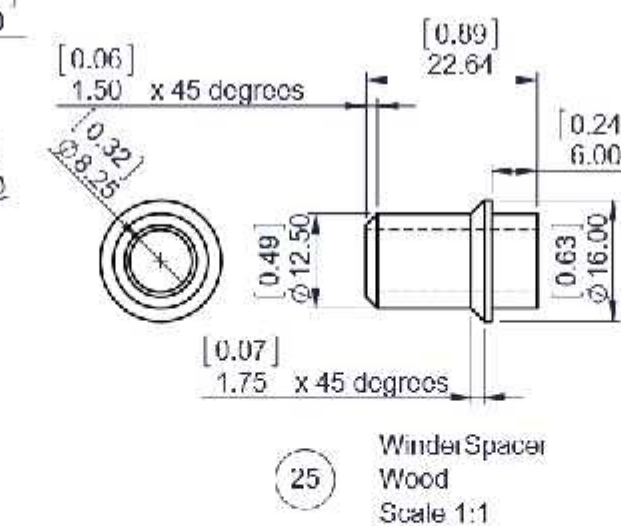
32 Shaft Spacer Front
Wood
Scale 1:1



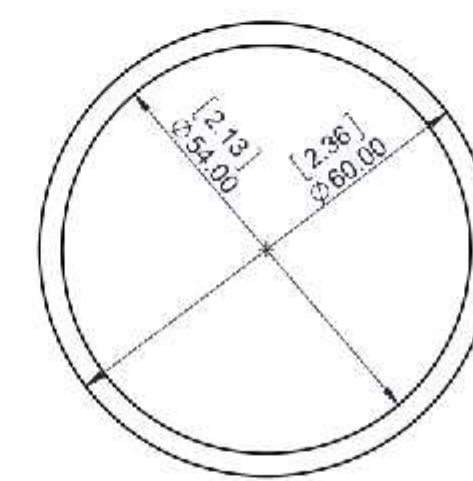
33 Drum
Wood
Scale 1:1



Can be machined from 2 halves
each 10 mm thk

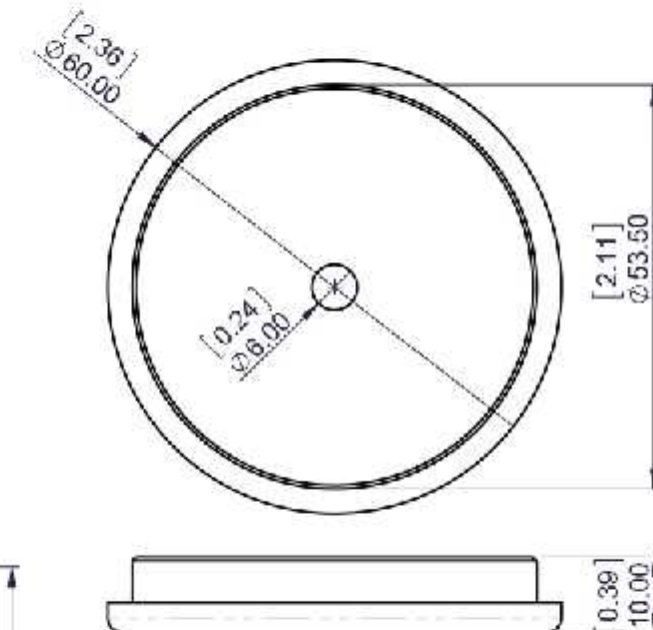


25 Winder Spacer
Wood
Scale 1:1

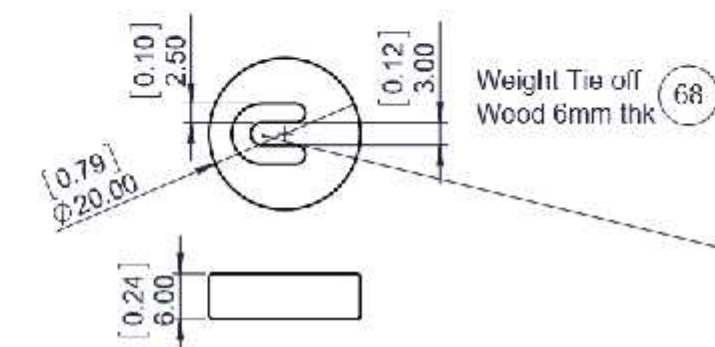


65 Weight Outer Tube
Perspex tube
Scale 1:1

Fill the container with
Steel Balls (Catapult Ammo)
or Lead Shot to required weight
750 KG



67 Weight End Plug
Wood 10 mm thk
2 Required Scale 1:1



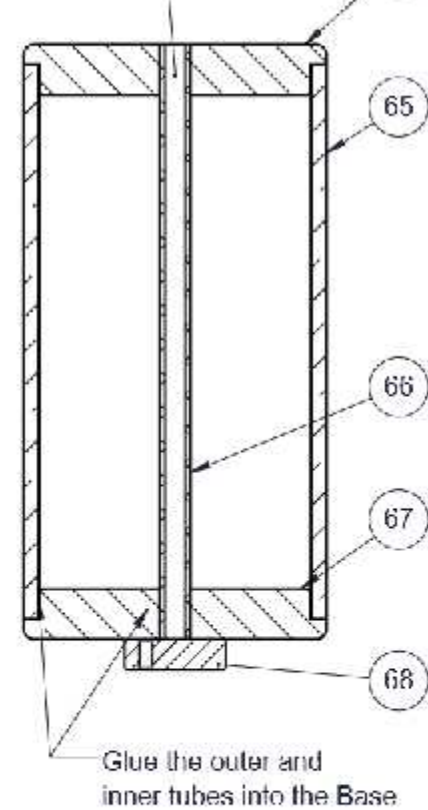
68 Weight Tie off
Wood 6mm thk



66 Weight Inner Tube
Perspex tube
Scale 1:1

Weight assembly

Loose fit on the tube



Glue the outer and
inner tubes into the Base

The weight is attached to the
Clock by tying a loop in the
end of the Cord and looping
it over the protrusion in the center
of the Weight Tie Off Part.

Std 9 of 12 Shis	A2	Clock 45 - Starter Clock - 2	
Not to Scale Unless otherwise stated		All dimensions in mm and (inches) 3rd Angle projection	Designed by: Brian law November 2021 www.woodenrclacks.co.uk

