



Remote Control **Race** Car

Joshua Hall, Senior Graphics 2022

SOLID EDGE ACADEMIC COPY



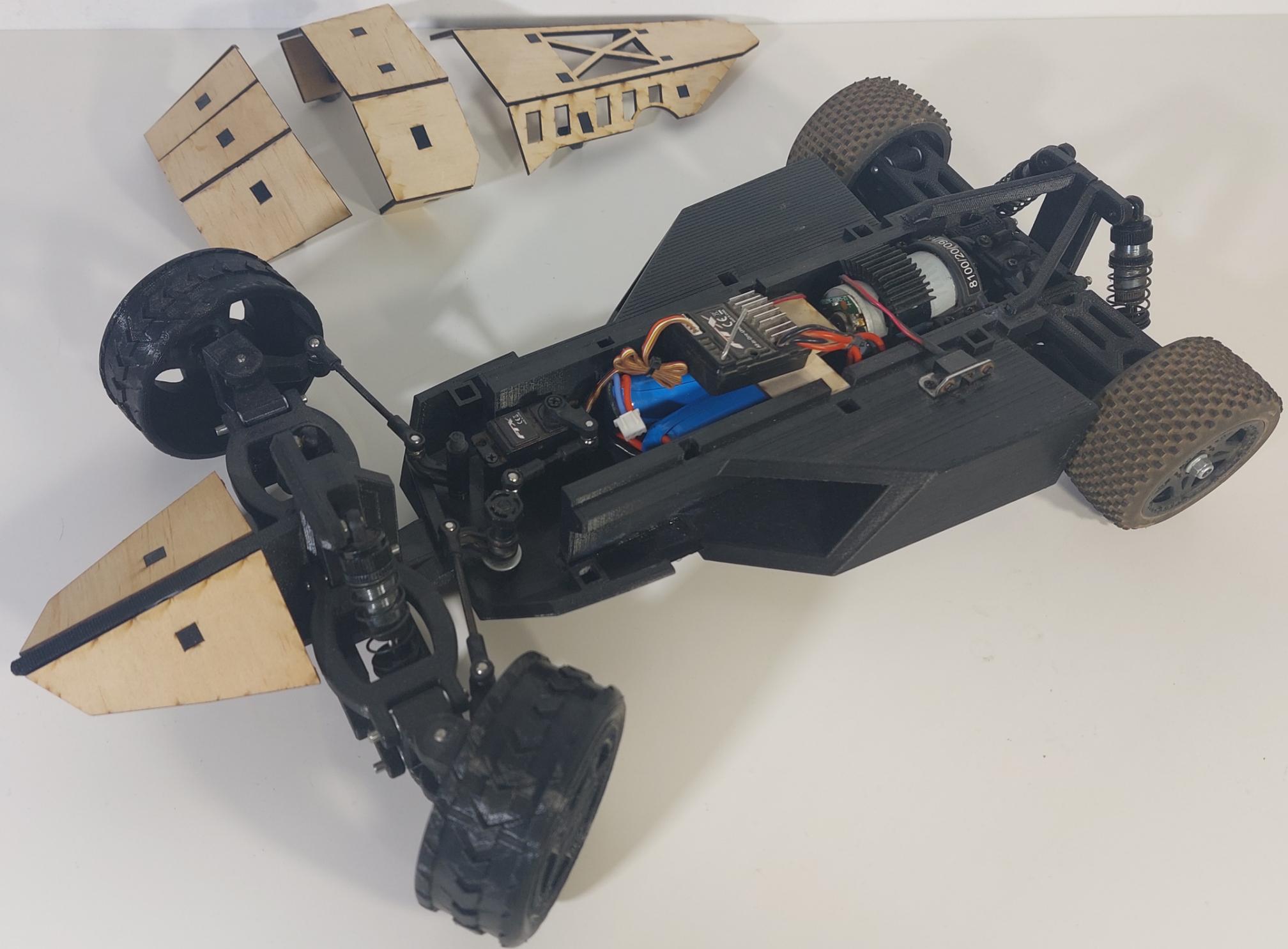
Remote Control **Race** Car

Remote Control Race Car

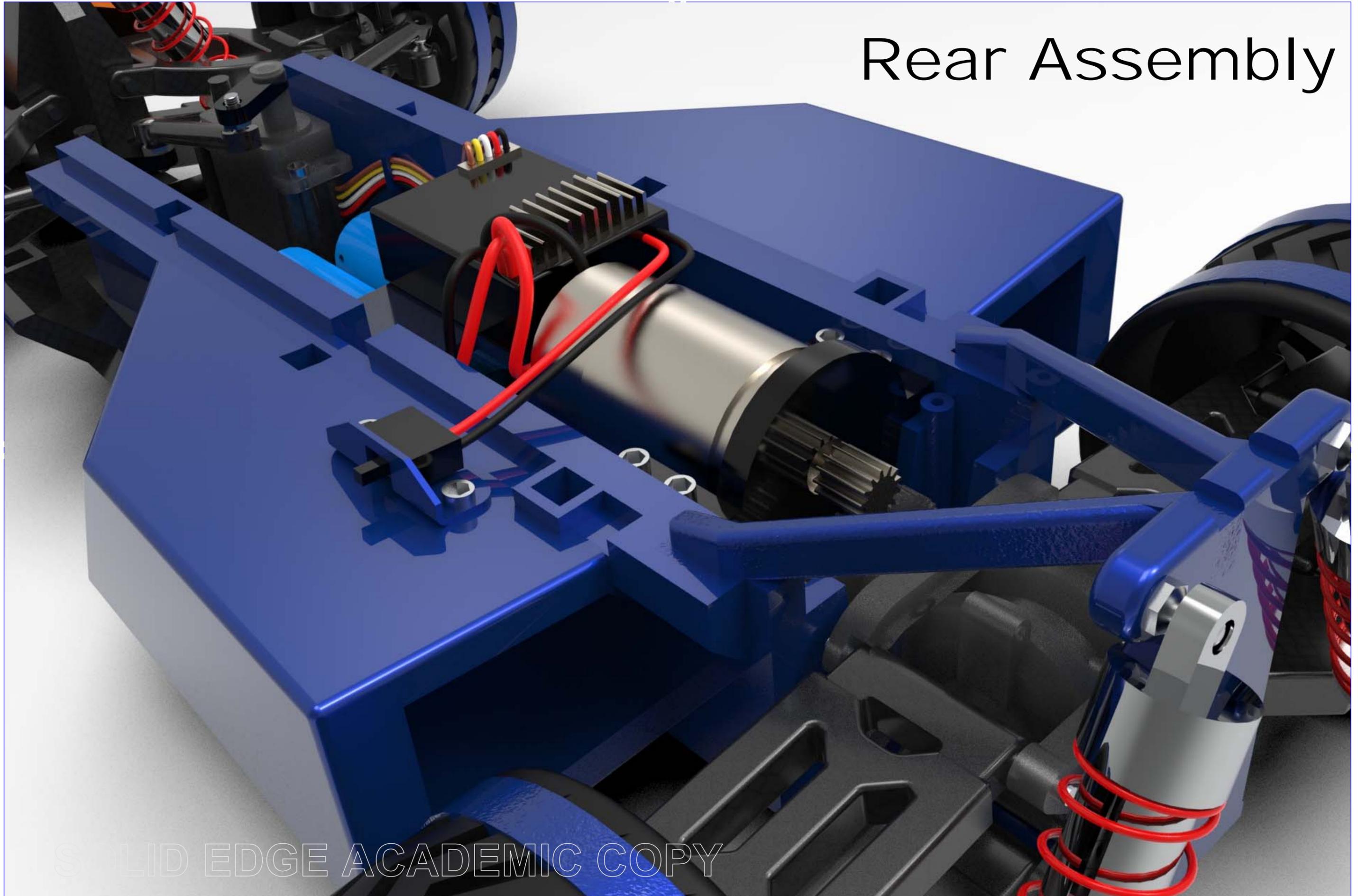
Joshua Hall



Internal View

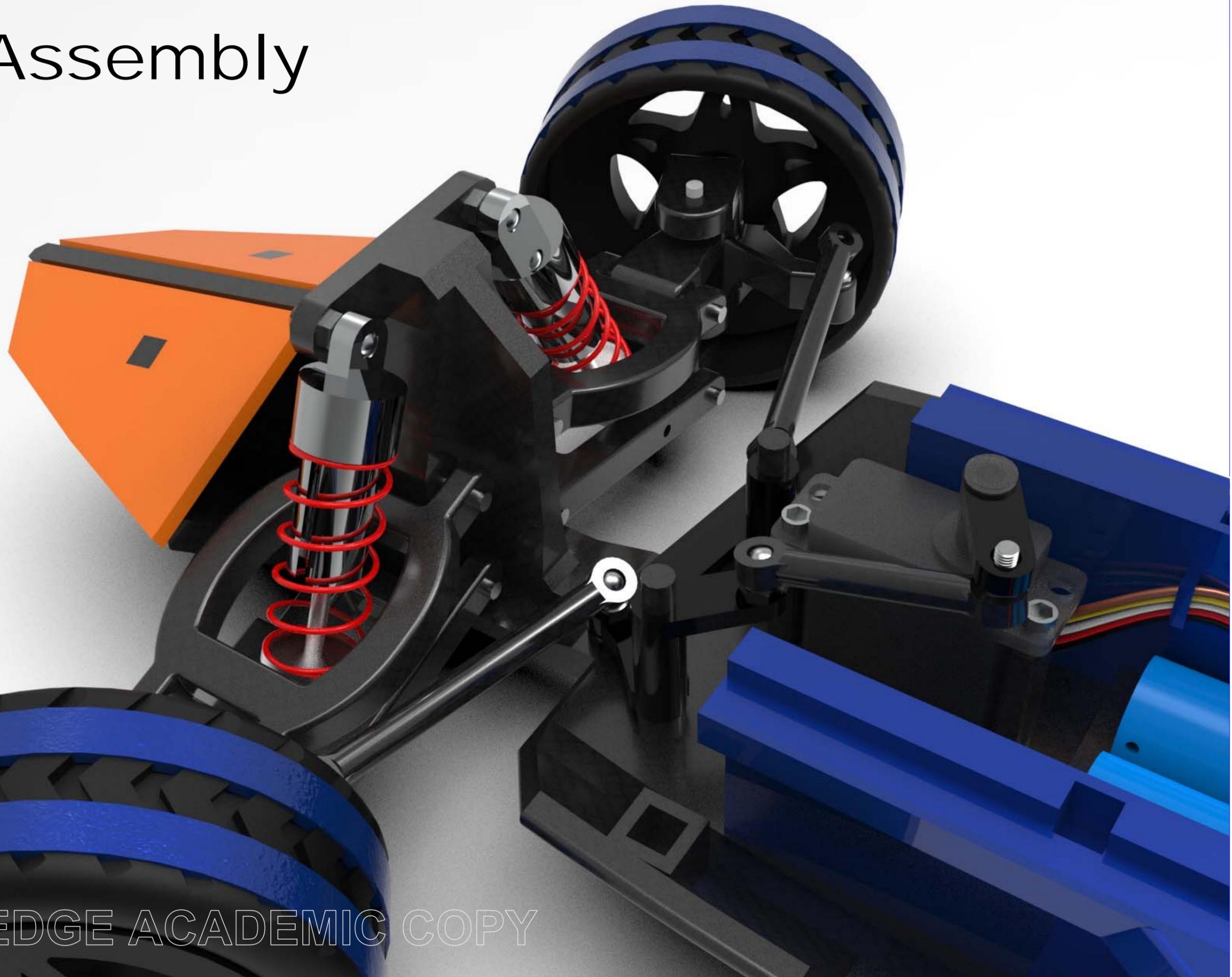


Rear Assembly

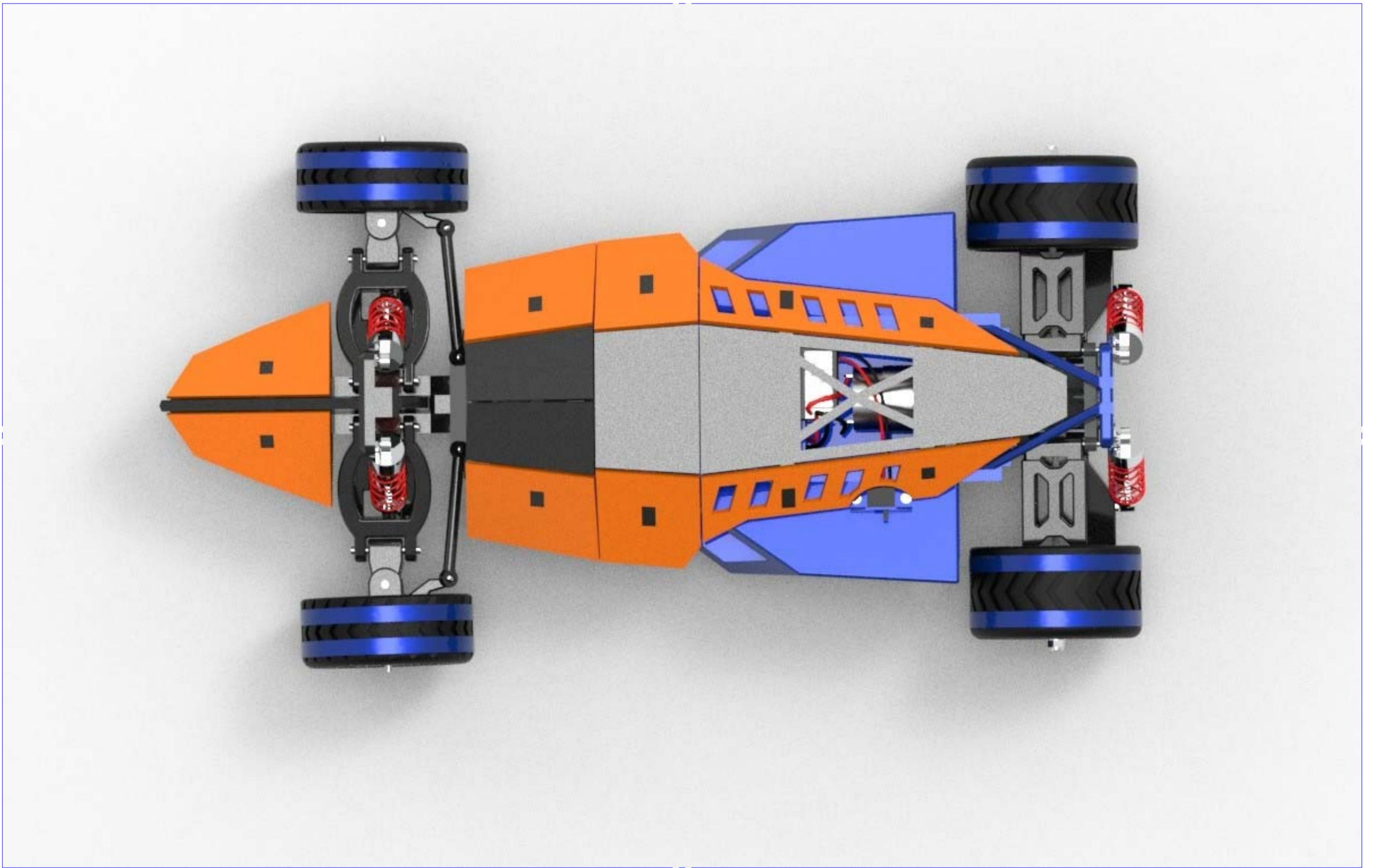


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Front Assembly

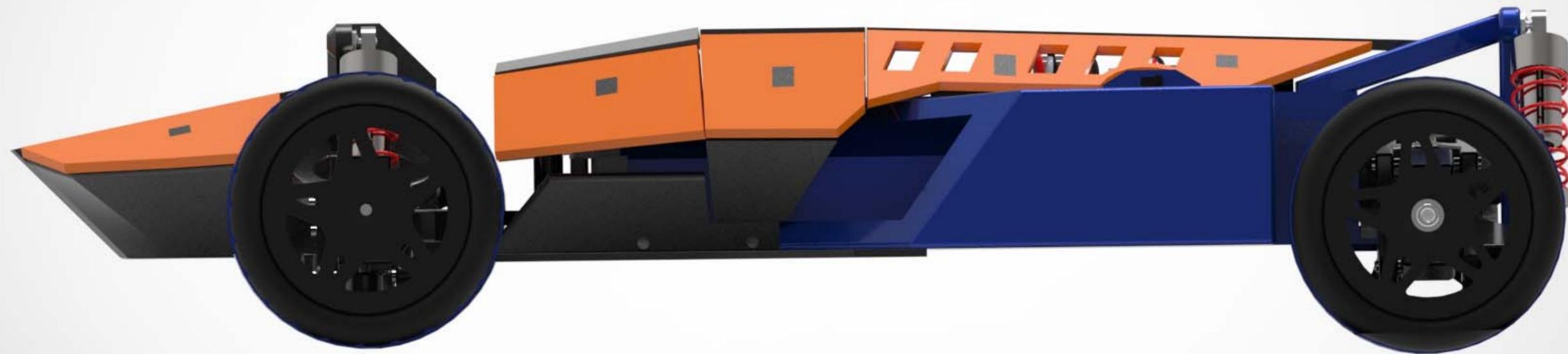


SOLID EDGE ACADEMIC COPY



Top Profile View

SOLID EDGE ACADEMIC COPY

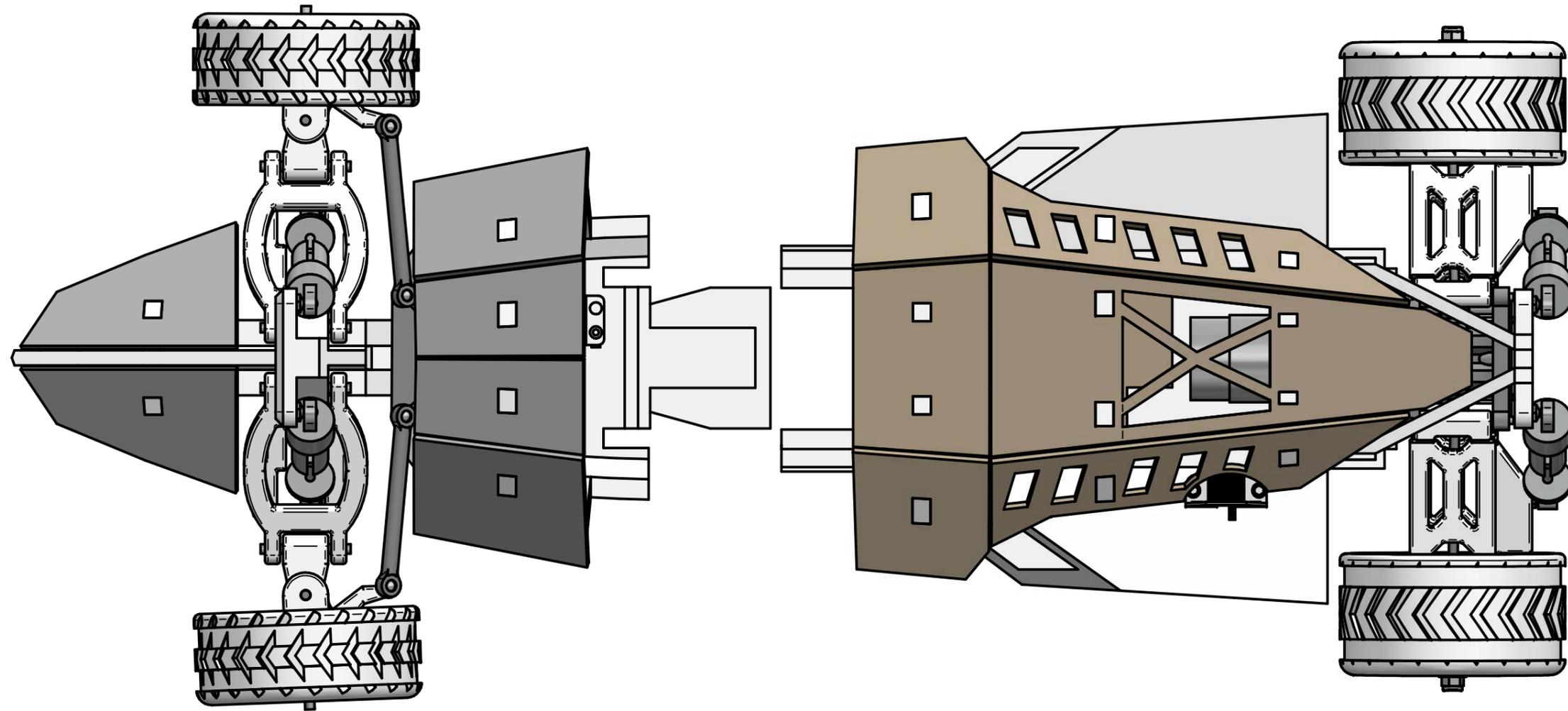


Side Profile View

SCAD FILE ENGINEERING ACADEMIC COPY

FRONT ASSEMBLY

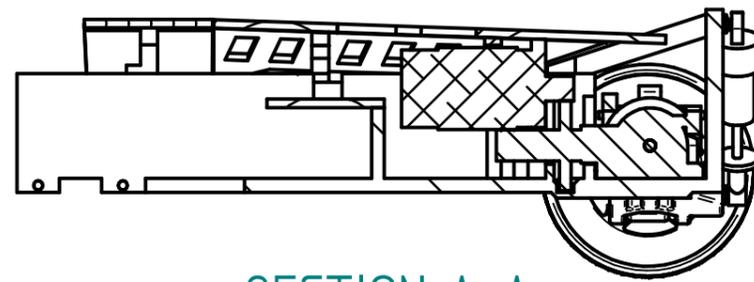
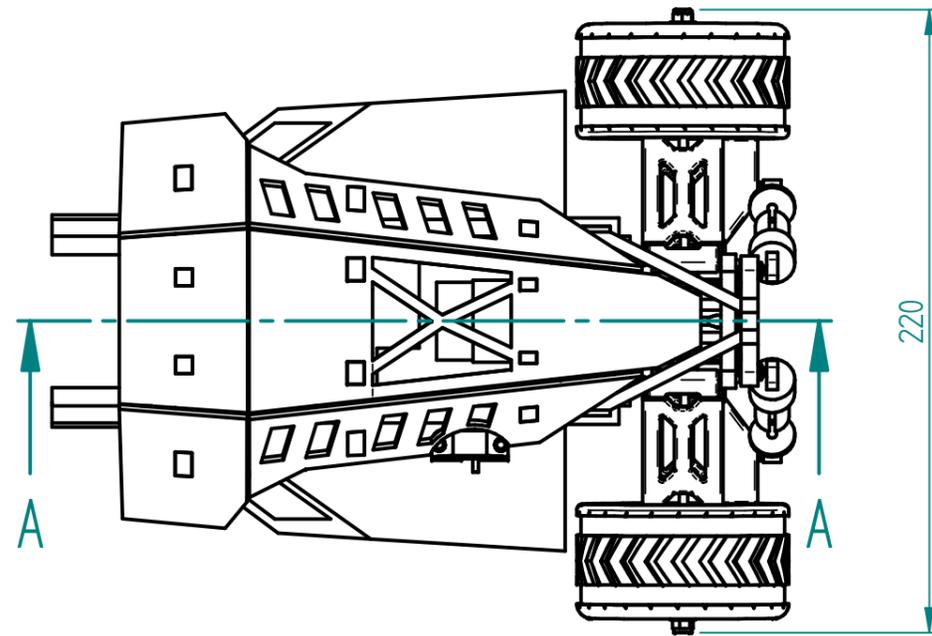
REAR ASSEMBLY



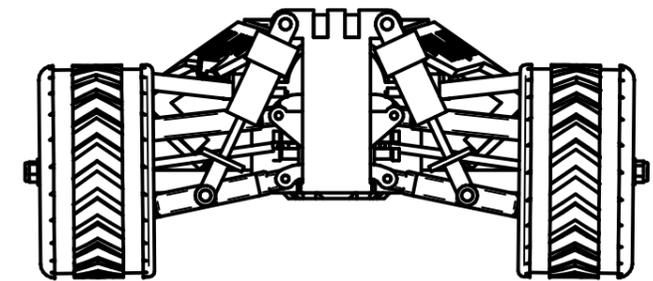
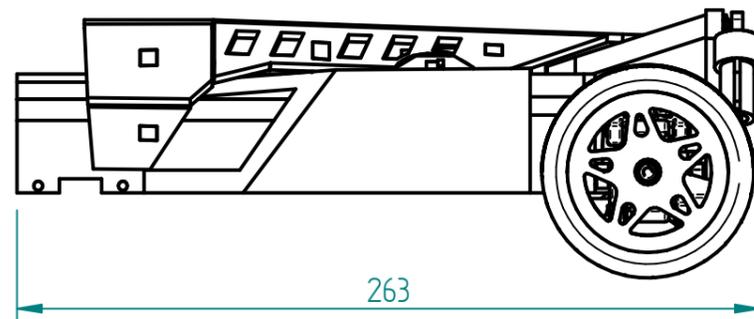
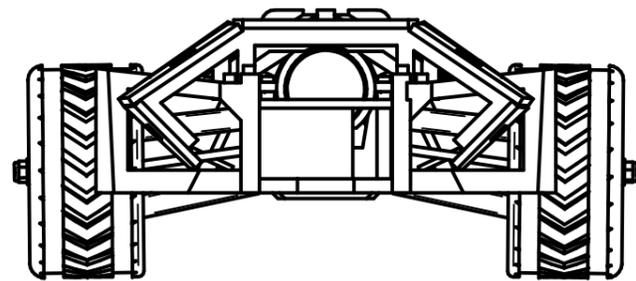
REMOTE CONTROL **Race** CAR

SOLID EDGE ACADEMIC COPY

	Joshua.Hall	Title: JH RC - Rear Assembly		
	08/22/22	Size A3	Drw No. 1	Rev 1
Unless otherwise specified, all measurements are in Millimetres				
FILE NAME: JH RC - chassis rear.dft		Scale:	Checked:	SHEET 7 OF 29



SECTION A-A



ORTHOGRAPHIC - REAR ASSEMBLY

Scale 1:2.5

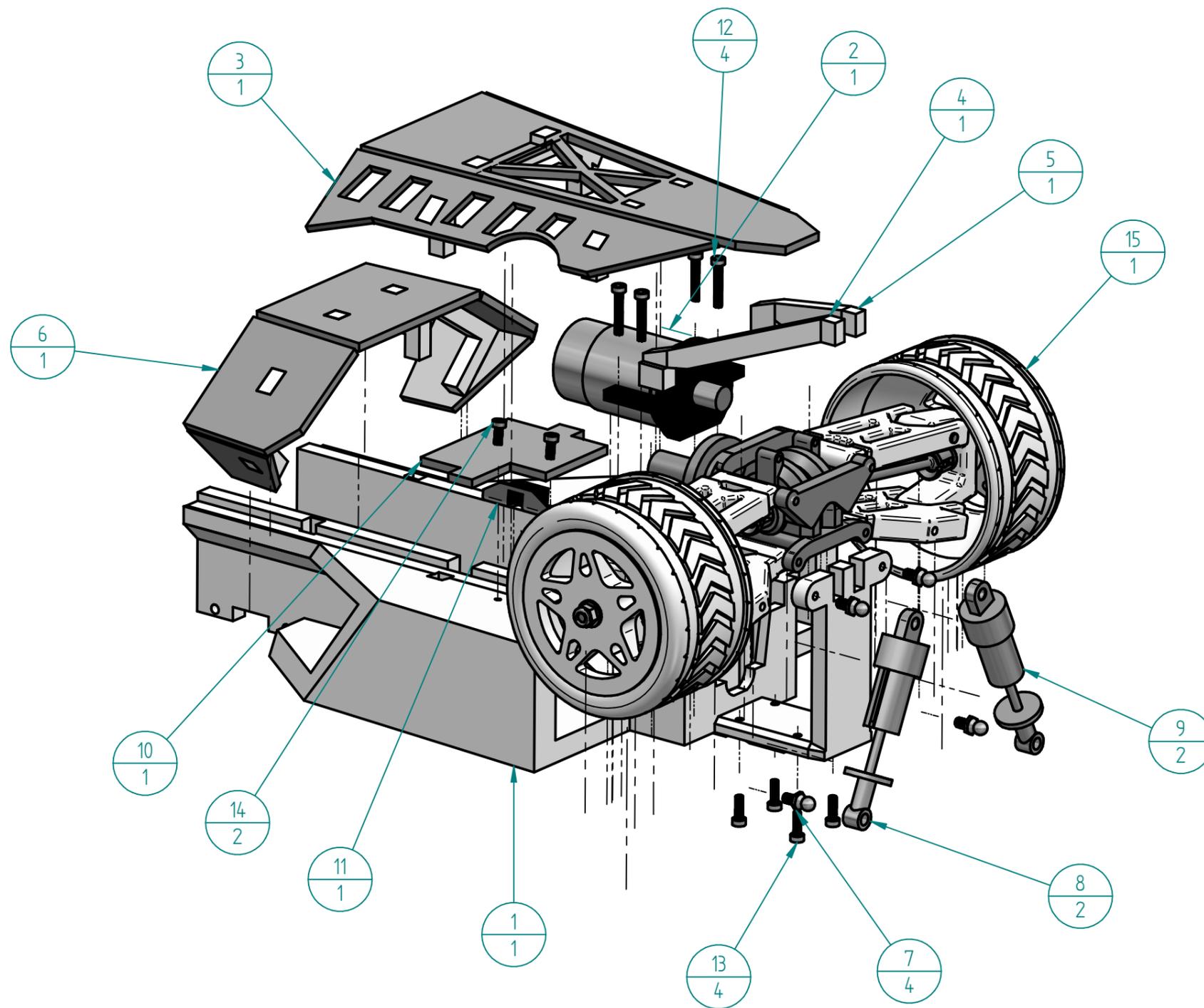


Joshua.Hall

08/22/22

Unless otherwise specified, all measurements are in Millimetres

Title:		JH RC - Rear Assembly	
Size	Drw No.	Rev	
A3	1	1	
FILE NAME: JH RC - chassis rear.dft			
Scale:	Checked:	SHEET 8 OF 29	



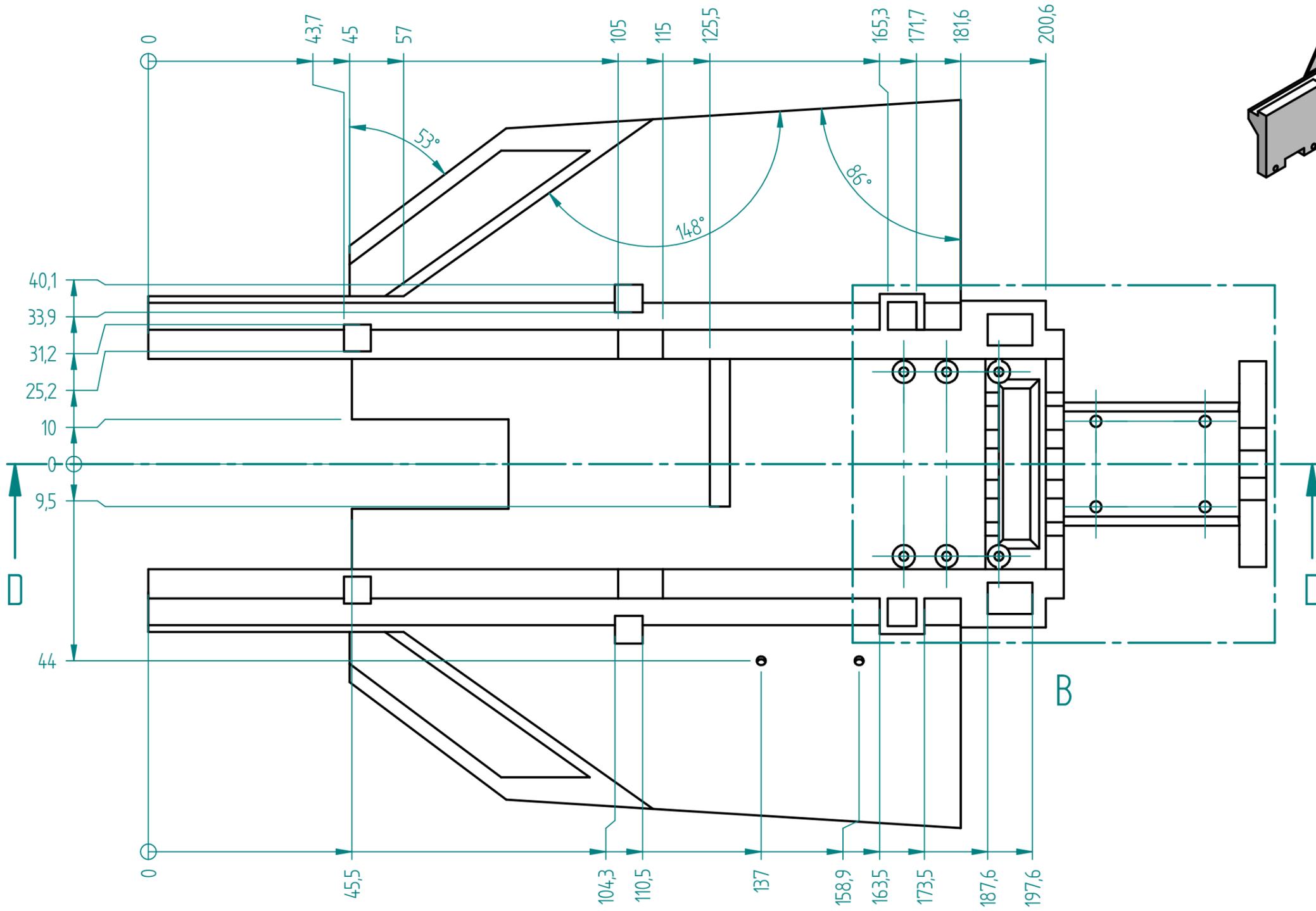
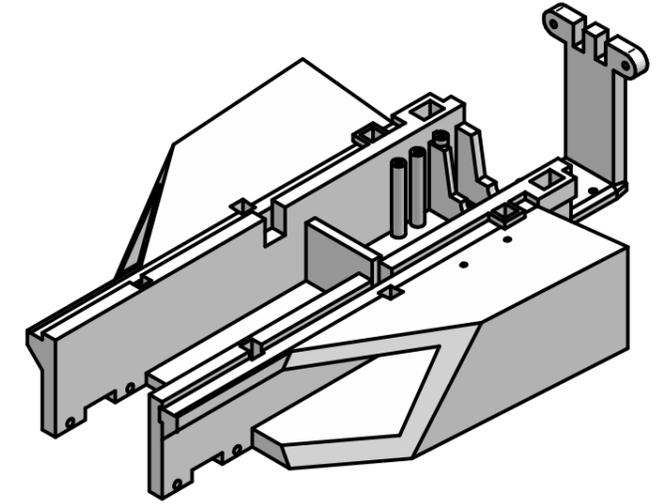
Item Number	File Name (no extension)	Material	Quantity
1	JH RC - rear sidepods	ABS Plastic, high impact	1
2	JH RC - 390 motor placeholder	Aluminum, 1060	1
3	JH RC - rear boot 1		1
4	JH RC - left diff arm	ABS Plastic, high impact	1
5	JH RC - right diff arm	ABS Plastic, high impact	1
6	JH RC - chassis mid		1
7	JH RC - ball for coil overs	Aluminum, 1060	4
8	JH RC - coil over piston	Aluminum, 1060	2
9	JH - coil over receiver	Aluminum, 1060	2
10	JH RC - battery lid	Wood, Oak	1
11	JH RC - switch	Aluminum, 1060	1
12	JH RC - M2.5x15 screw	Aluminum, 1060	4
13	JH RC - M2.5x8 screw	Aluminum, 1060	4
14	JH RC - M2.5x6 screw	Aluminum, 1060	2
15	JH RC - chassis rear drive unit		1

EXPLODED VIEW - REAR ASSEMBLY

SOLID EDGE ACADEMIC COPY

 Joshua.Hall 08/22/22	Title: JH RC - Rear Assembly	
	Size: A3	Drw No. 1
FILE NAME: JH RC - chassis rear.dft		
Scale:	Checked:	SHEET 9 OF 29

Unless otherwise specified, all measurements are in Millimetres



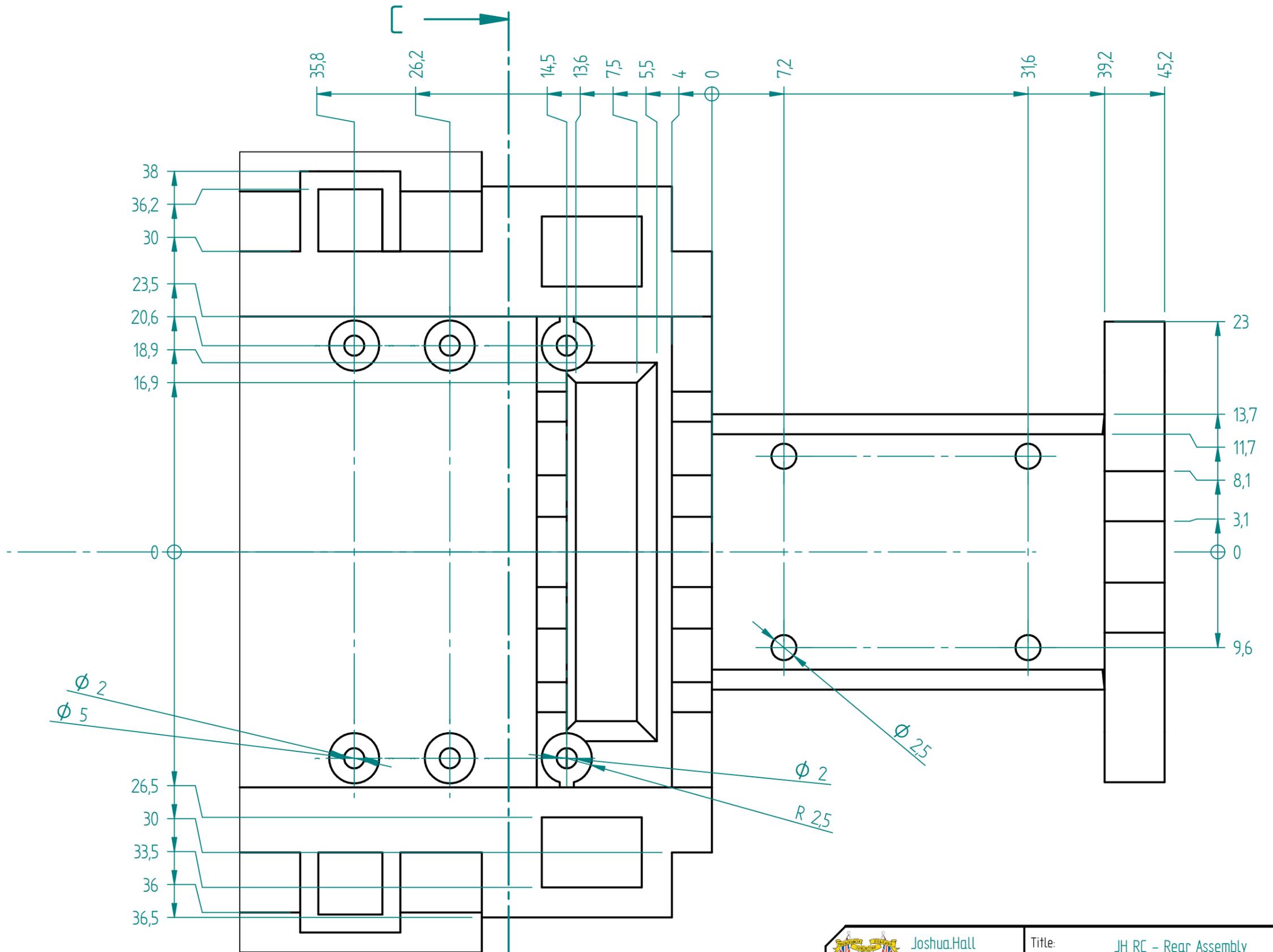
#1 REAR CHASSIS

Scale 1:1

SOLID EDGE ACADEMIC COPY


 Joshua.Hall
 08/22/22
 Unless otherwise specified, all measurements are in Millimetres

Title:		JH RC - Rear Assembly	
Size	Drw No.	Rev	
A3	1	1	
FILE NAME: JH RC - chassis rear.dft			
Scale:	Checked:	SHEET 10 OF 29	

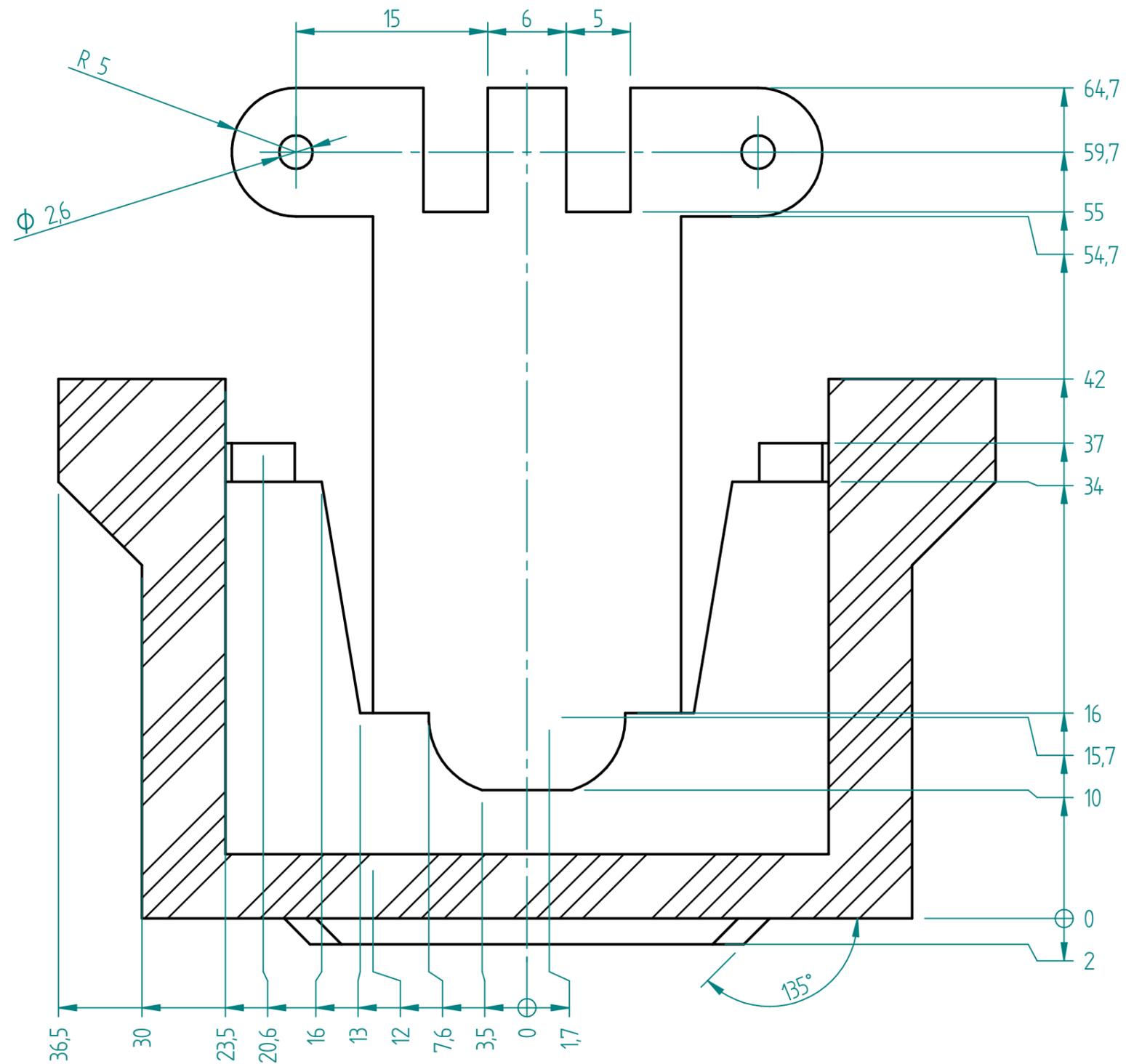


#1 DETAIL B
Scale 2.5:1

Joshua.Hall
08/22/22

Unless otherwise specified, all measurements are in Millimetres

Title: JH RC - Rear Assembly		Rev: 1
Size: A3	Drw No: 1	Rev: 1
FILE NAME: JH RC - chassis rear.dft		
Scale:	Checked:	SHEET 11 OF 29

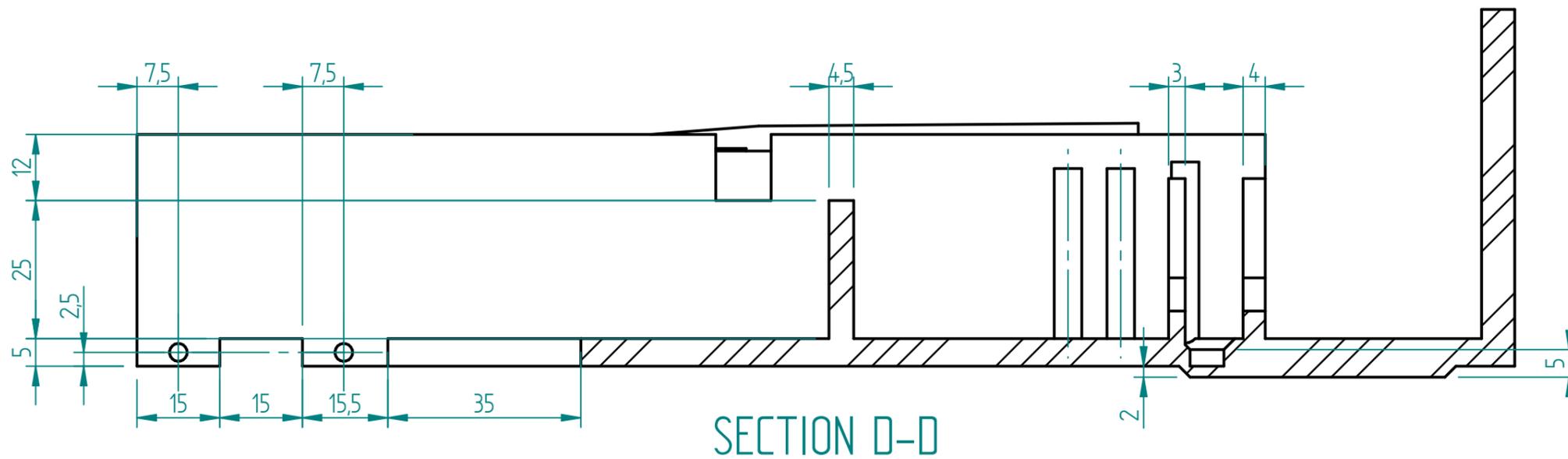


#1 SECTION C
Scale 1:2.5

SOLID EDGE ACADEMIC COPY


 Joshua.Hall
 08/22/22
 Unless otherwise specified, all measurements are in Millimetres

Title:		JH RC - Rear Assembly	
Size A3	Drw No. 1	Rev 1	
FILE NAME: JH RC - chassis rear.dft			
Scale:	Checked:	SHEET 12 OF 29	

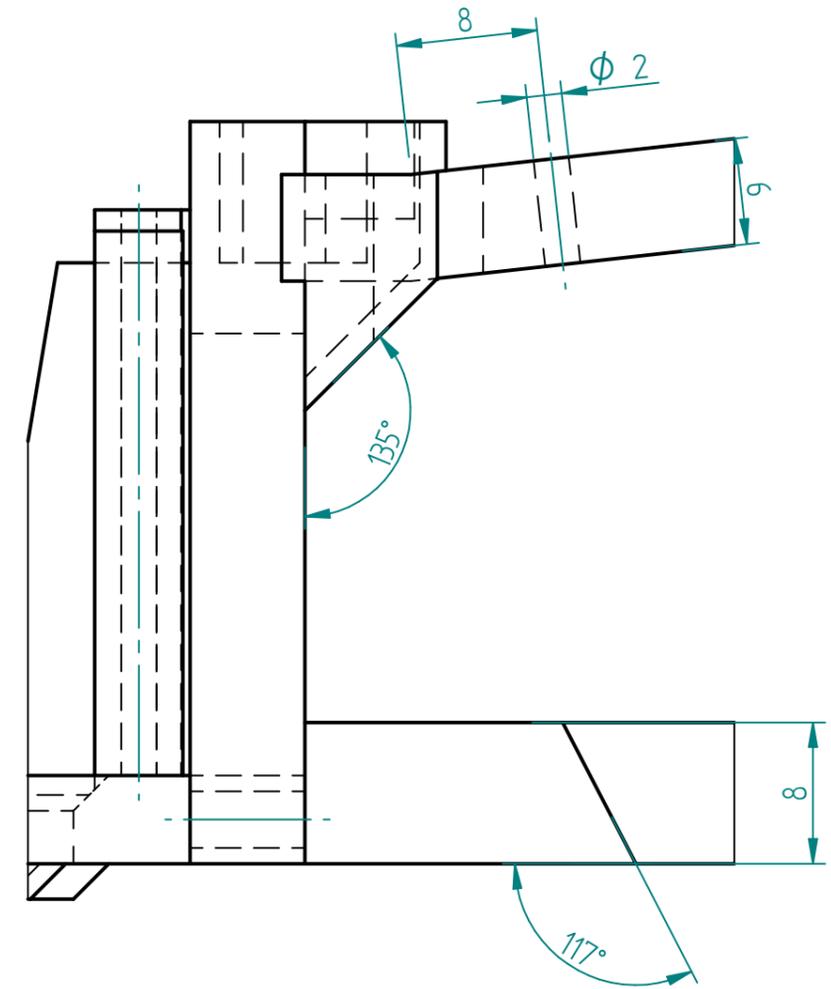
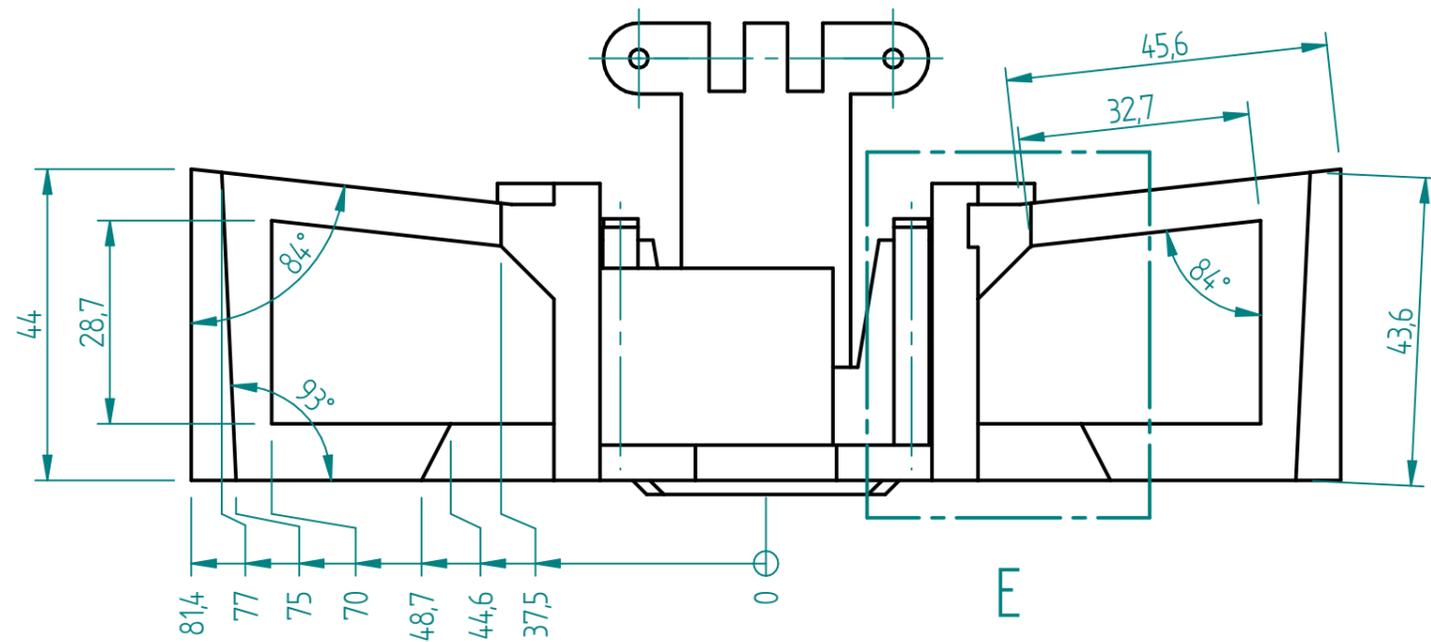


#1 SECTION D
Scale 1:1

SOLID EDGE ACADEMIC COPY

 Joshua.Hall 08/22/22	Title: JH RC - Rear Assembly	
	Size A3	Drw No. 1
FILE NAME: JH RC - chassis rear.dft		
Scale:	Checked:	SHEET 13 OF 29

Unless otherwise specified, all measurements are in Millimetres



#1 DETAIL E

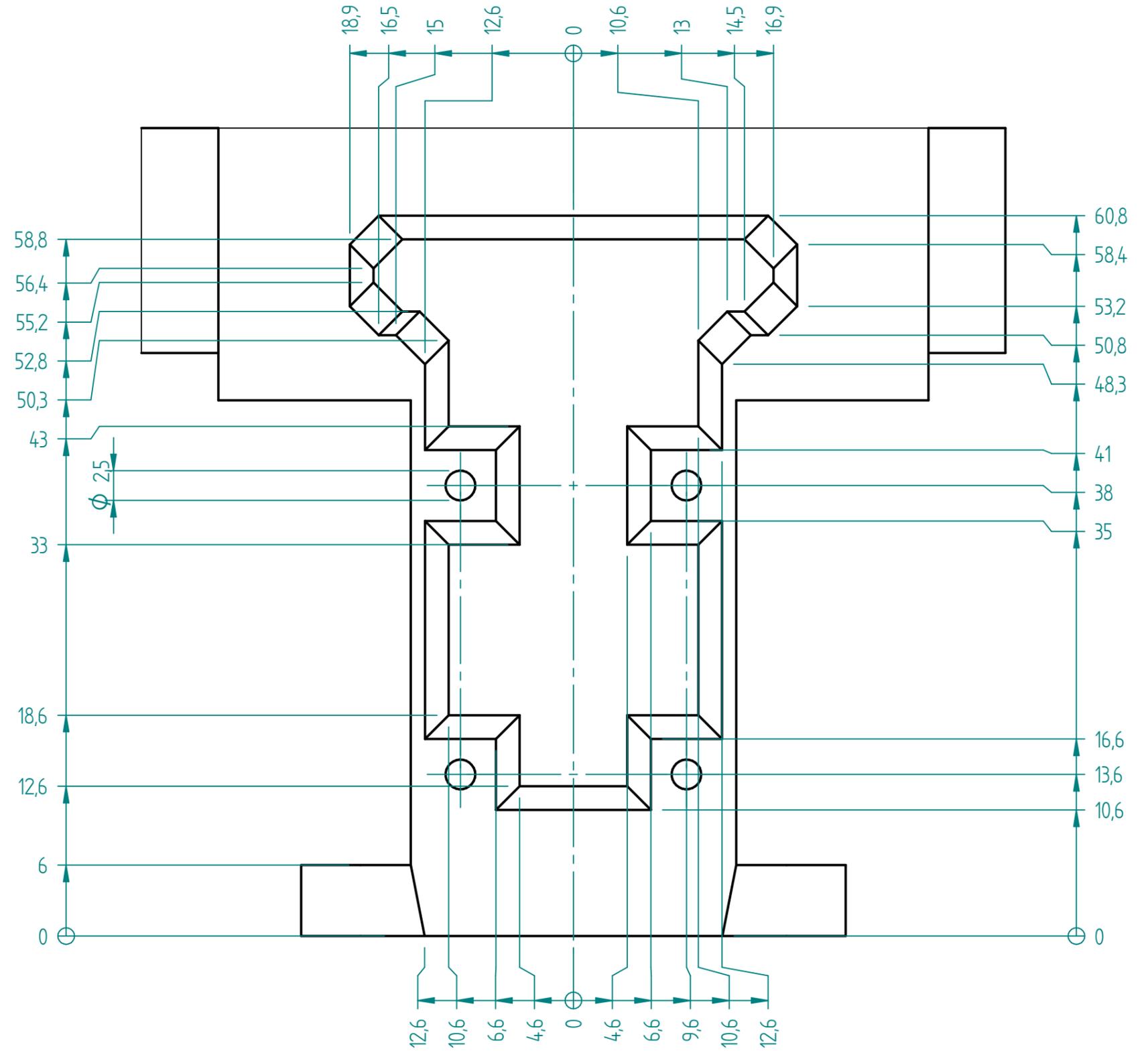
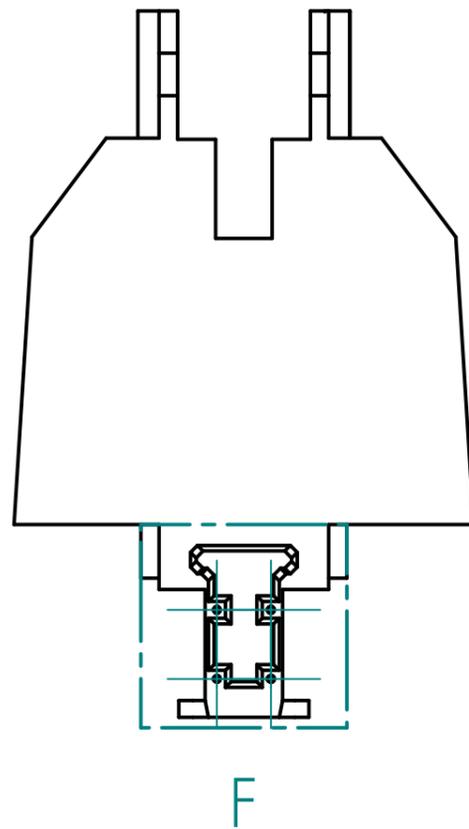
Scale 2.5:1

#1 REAR CHASSIS FRONT VIEW

Scale 1:1

 Joshua.Hall 08/22/22	Title: JH RC - Rear Assembly	
	Size A3	Drw No. 1
FILE NAME: JH RC - chassis rear.dft		
Scale:	Checked:	SHEET 14 OF 29

Unless otherwise specified, all measurements are in Millimetres



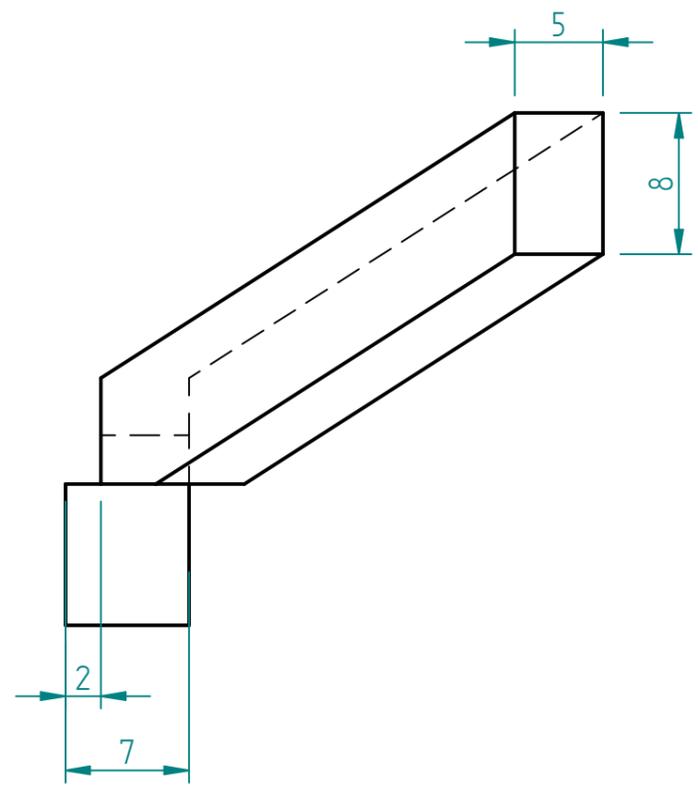
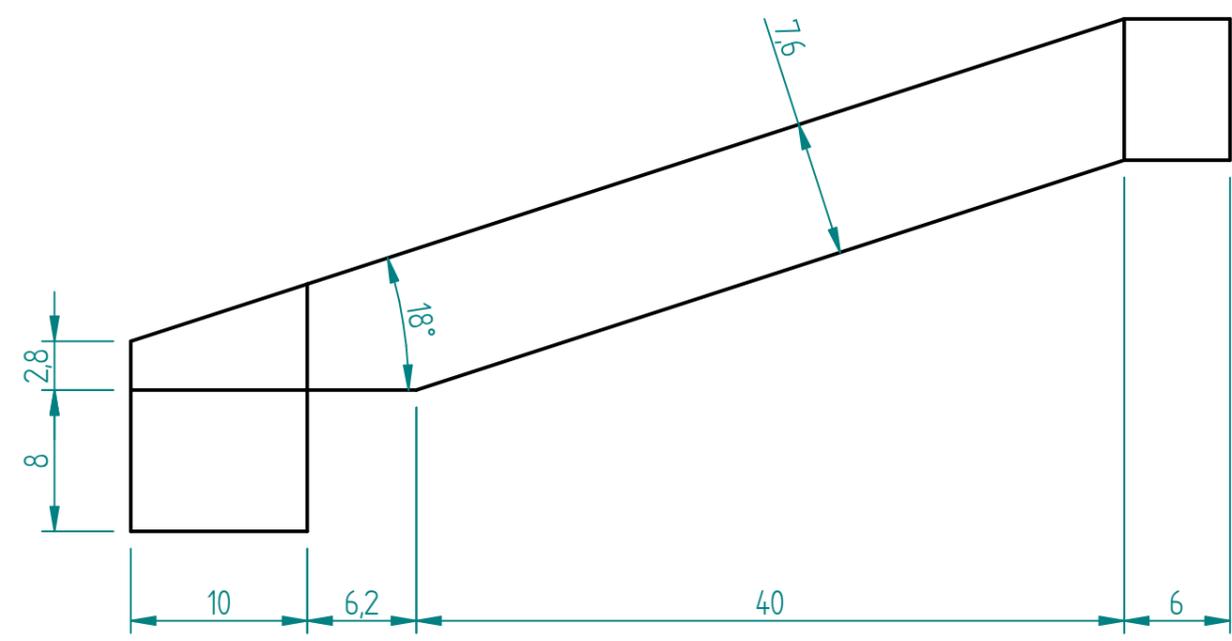
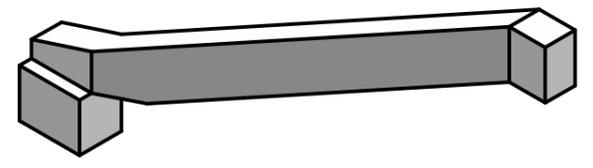
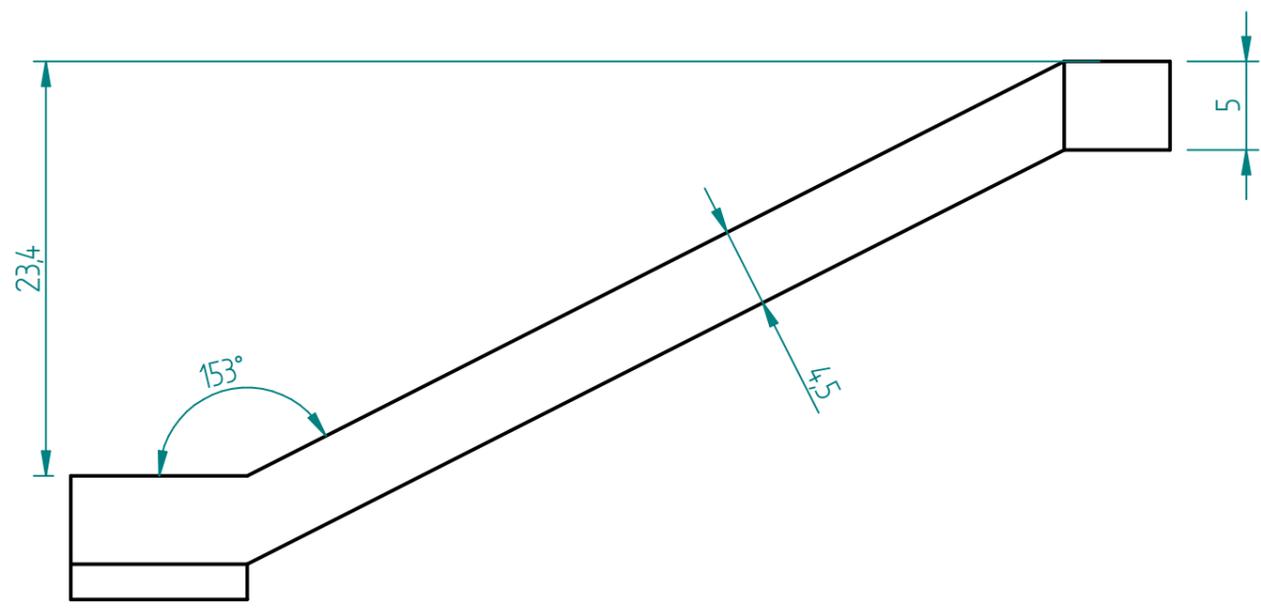
#1 DETAIL F

Scale 2.5:1

SOLID EDGE ACADEMIC COPY


 Joshua.Hall
 08/22/22
 Unless otherwise specified, all measurements are in Millimetres

Title: JH RC - Rear Assembly	
Size: A3	Drw No. 1
FILE NAME: JH RC - chassis rear.dft	
Scale:	Checked: SHEET 15 OF 29



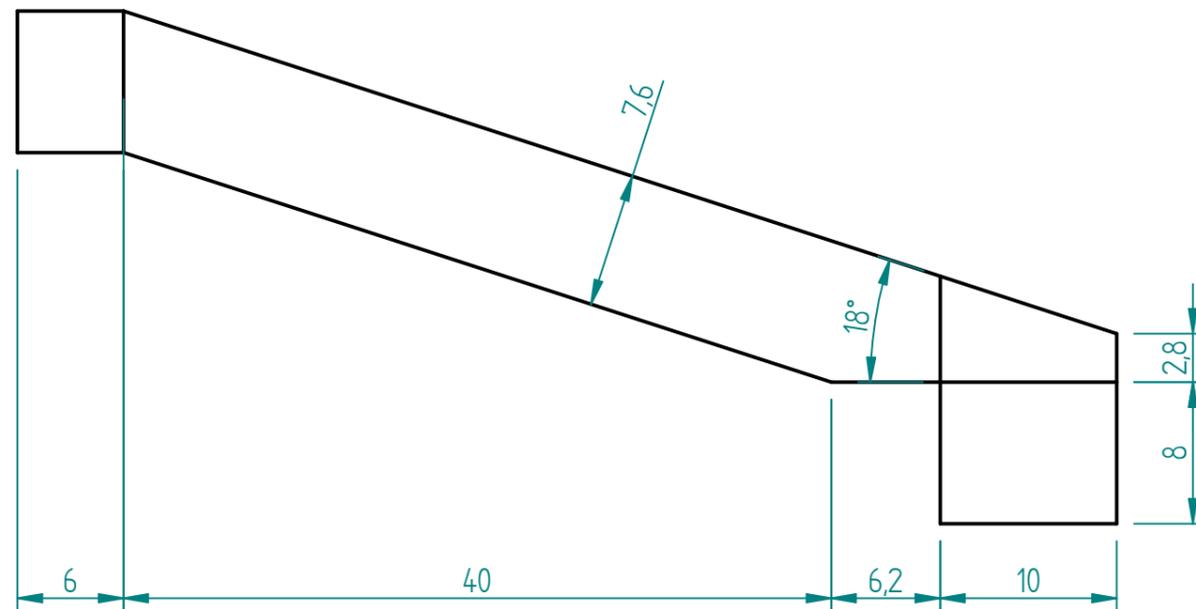
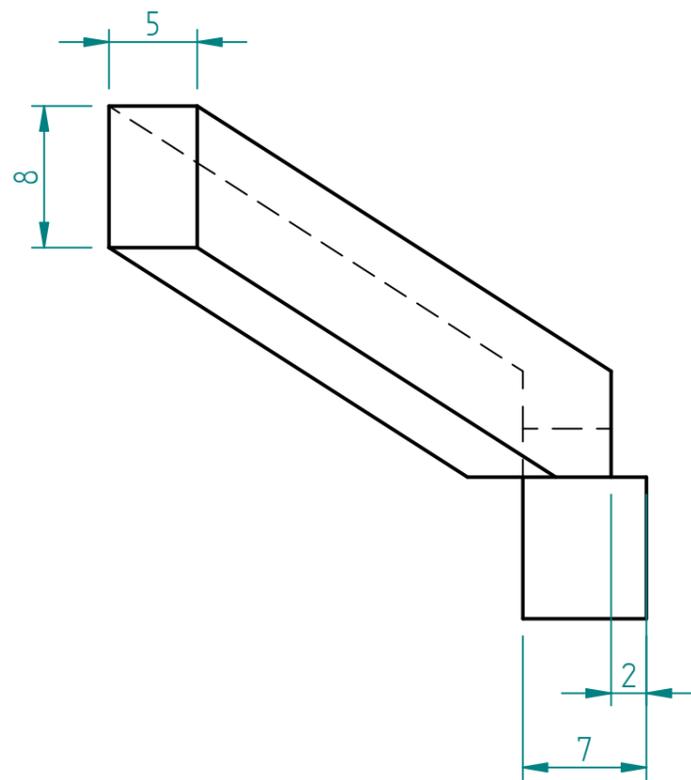
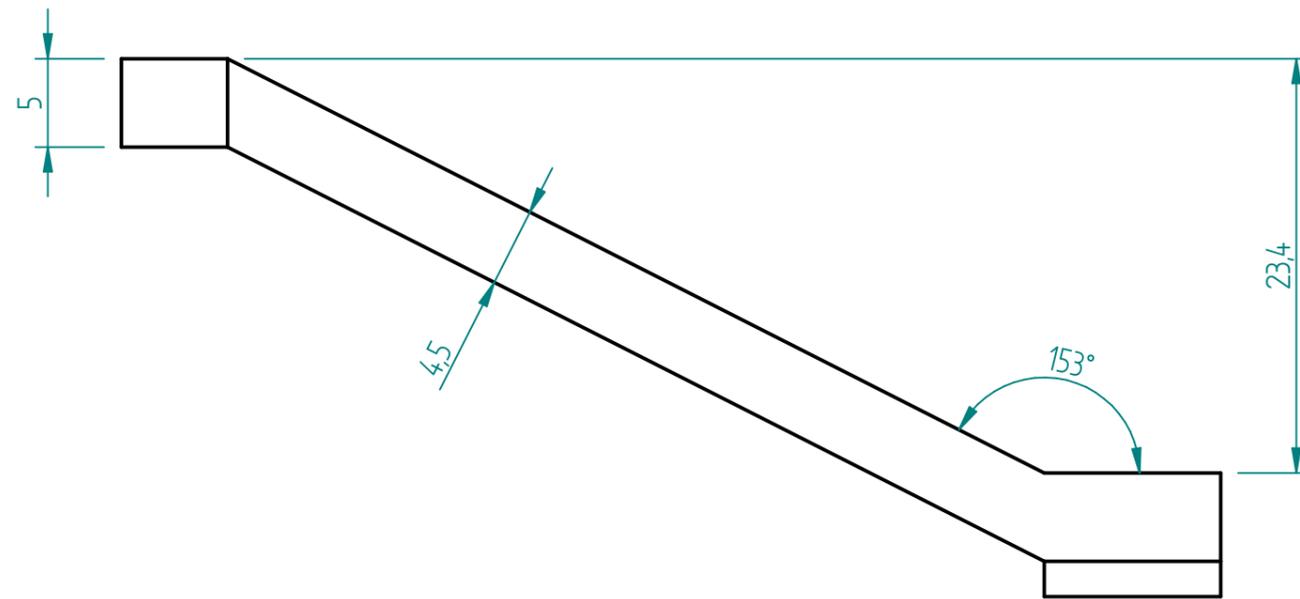
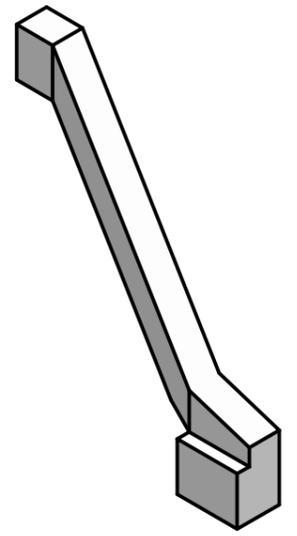
#4 LEFT DIFFERENTIAL ARM

Scale 2.5:1

Joshua.Hall
08/22/22

Unless otherwise specified, all measurements are in Millimetres

Title:	JH RC - Rear Assembly		
Size	Drw No.	Rev	
A3	1	1	
FILE NAME:	JH RC - chassis rear.dft		
Scale:	Checked:	SHEET 16 OF 29	

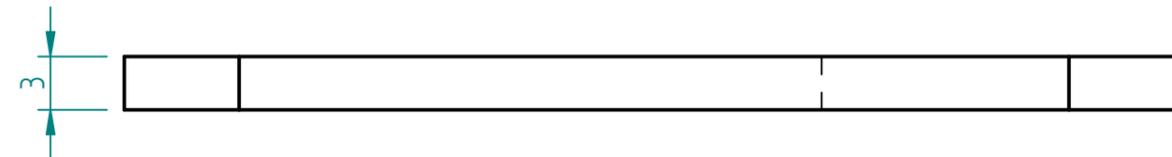
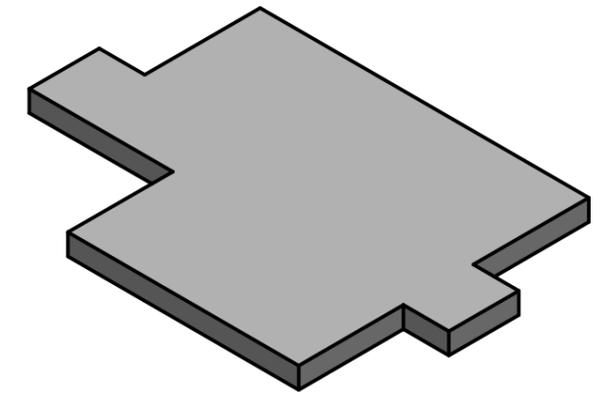
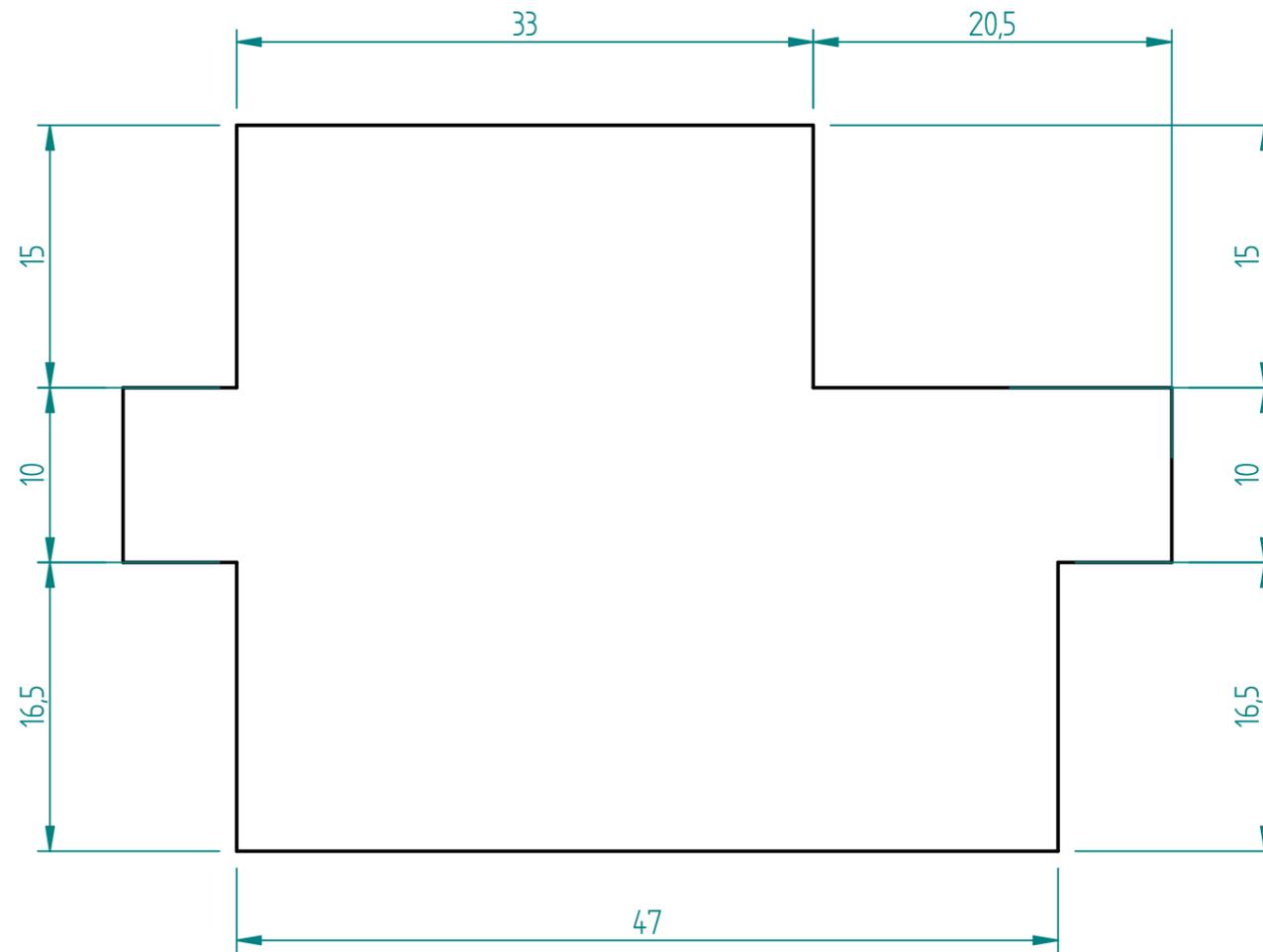


#5 RIGHT DIFFERENTIAL ARM

Scale 2.5:1


 Joshua.Hall
 08/22/22
 Unless otherwise specified, all measurements are in Millimetres

Title:		JH RC - Rear Assembly	
Size	Drw No.	Rev	
A3	1	1	
FILE NAME: JH RC - chassis rear.dft			
Scale:	Checked:	SHEET 17 OF 29	



#10 BATTERY LID

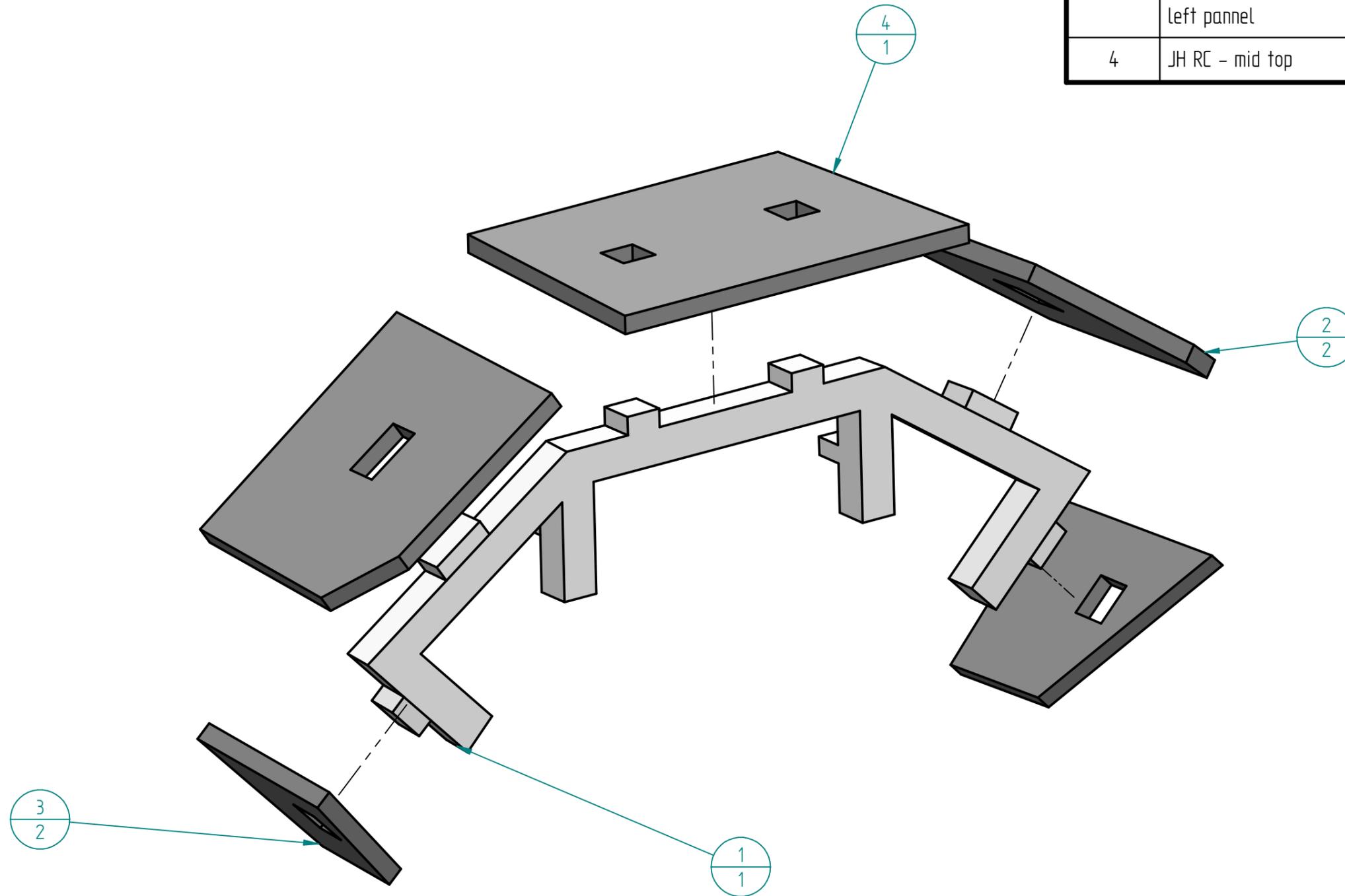
Scale 2.5:1

SOLID EDGE ACADEMIC COPY

 Joshua.Hall 08/22/22	Title: JH RC - Rear Assembly	
	Size: A3	Drw No. 1
FILE NAME: JH RC - chassis rear.dft		
Scale:	Checked:	SHEET 18 OF 29

Unless otherwise specified, all measurements are in Millimetres

Item Number	File Name (no extension)	Material	Quantity
1	JH RC - chassis mid brace	ABS Plastic, high impact	1
2	JH RC - mid high panel	Wood, Pine	2
3	JH RC - chassis mid low left panel	Wood, Pine	2
4	JH RC - mid top	Wood, Pine	1

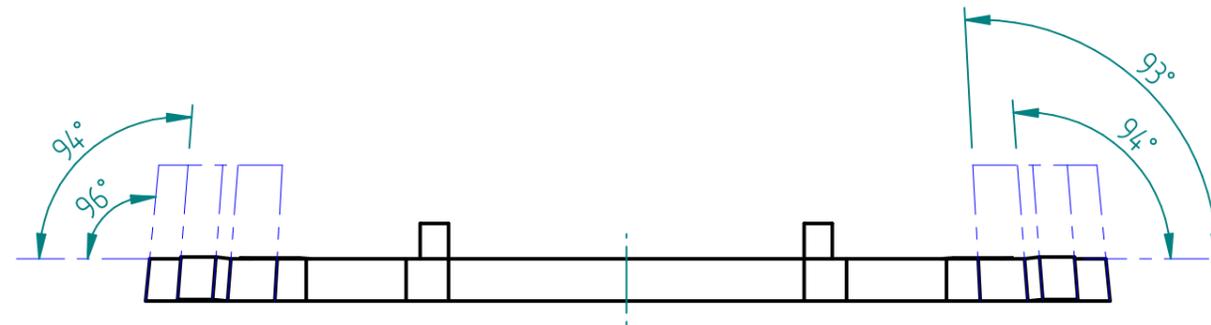
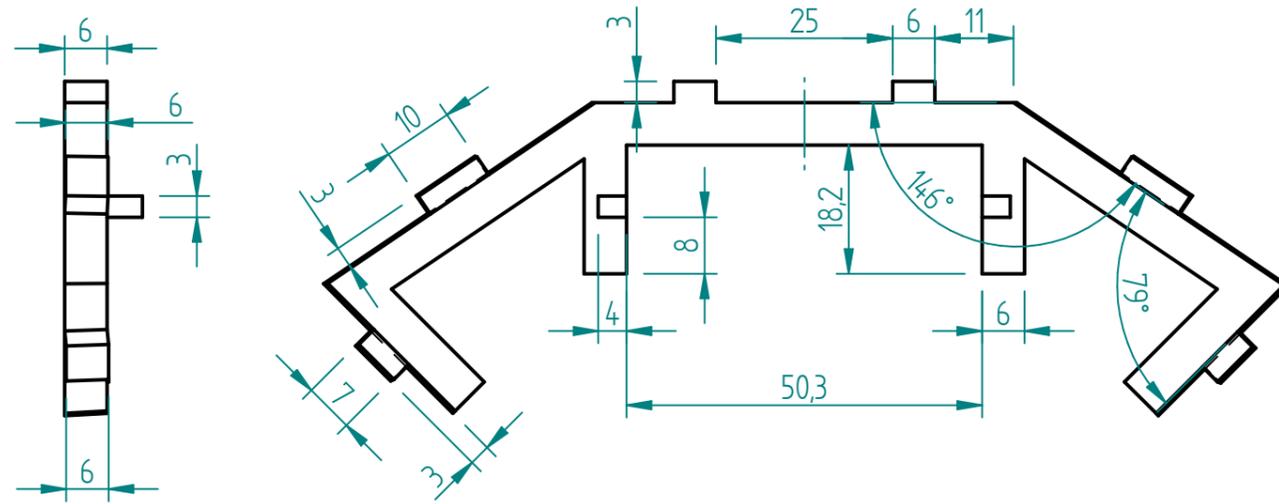
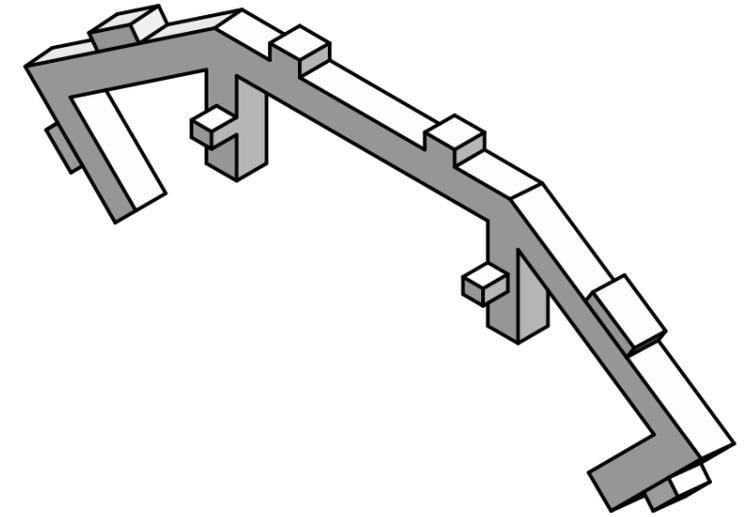
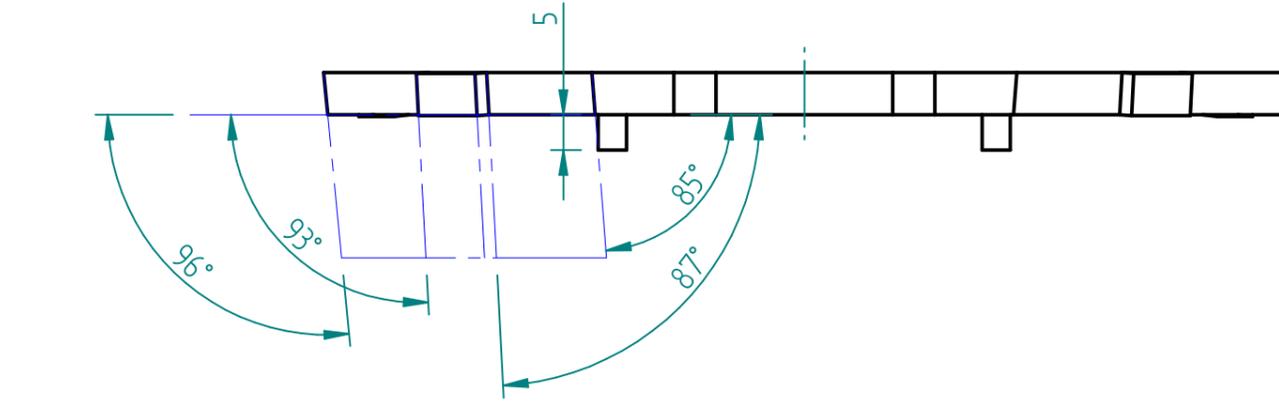


#6 CHASSIS MID BODY

SOLID EDGE ACADEMIC COPY


 Joshua.Hall
 08/22/22
 Unless otherwise specified, all measurements are in Millimetres

Title:		JH RC - Rear Assembly	
Size	Drw No.	Rev	
A3	1	1	
FILE NAME: JH RC - chassis rear.dft			
Scale:	Checked:	SHEET 19 OF 29	



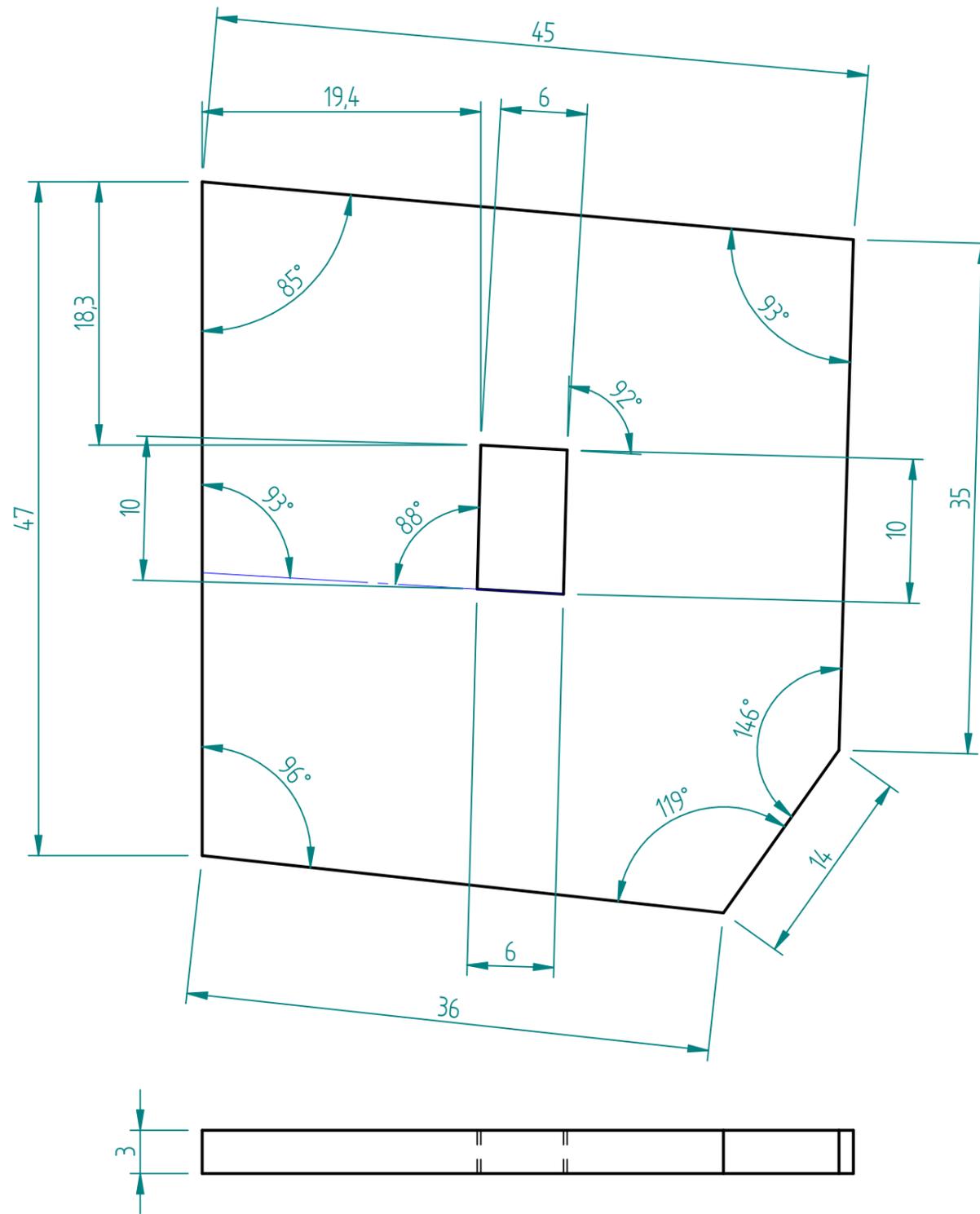
(#6) #1 MID BRACE

Scale 1:1

SOLID EDGE ACADEMIC COPY


 Joshua.Hall
 08/22/22
 Unless otherwise specified, all measurements are in Millimetres

Title:	JH RC - Rear Assembly	
Size	Drw No.	Rev
A3	1	1
FILE NAME:	JH RC - chassis rear.dft	
Scale:	Checked:	SHEET 20 OF 29

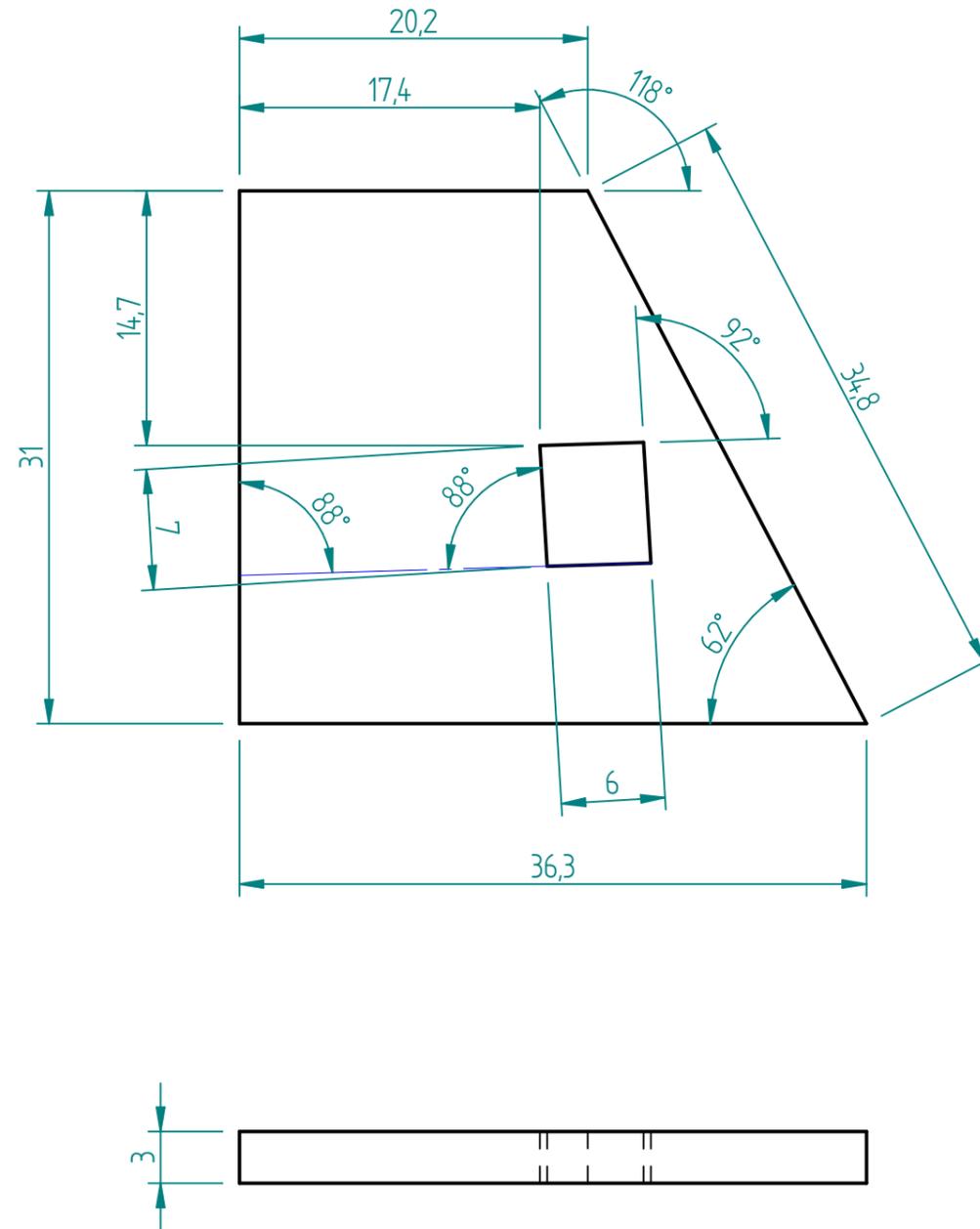
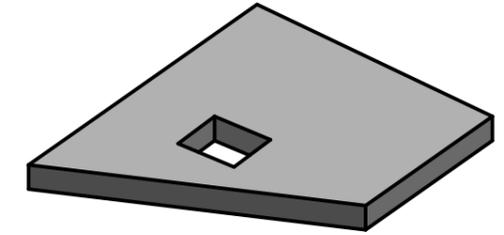


(#6) #2 MID HIGH PANNEL

Scale 2.5:1


 Joshua.Hall
 08/22/22
 Unless otherwise specified, all measurements are in Millimetres

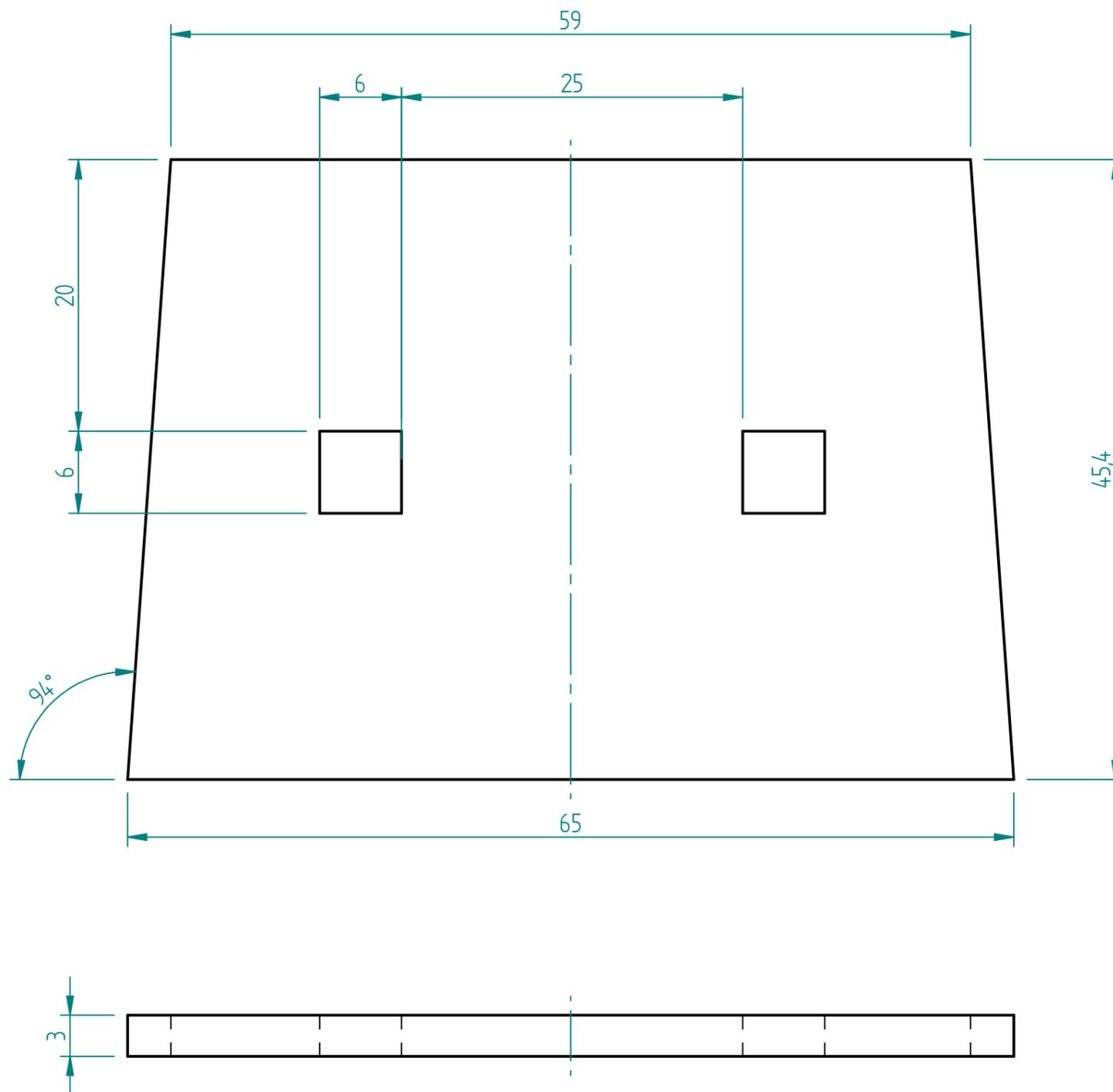
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Size	Drw No.	Rev	
A3	1	1	
FILE NAME:	JH RC - chassis rear.dft		
Scale:	Checked:	SHEET 21 OF 29	



(#6) #3 MID LOW PANNEL
 Scale 2.5:1

 Joshua.Hall 08/22/22	Title: JH RC - Rear Assembly	
	Size: A3	Drw No. 1
FILE NAME: JH RC - chassis rear.dft		
Scale:	Checked:	SHEET 22 OF 29

Unless otherwise specified, all measurements are in Millimetres



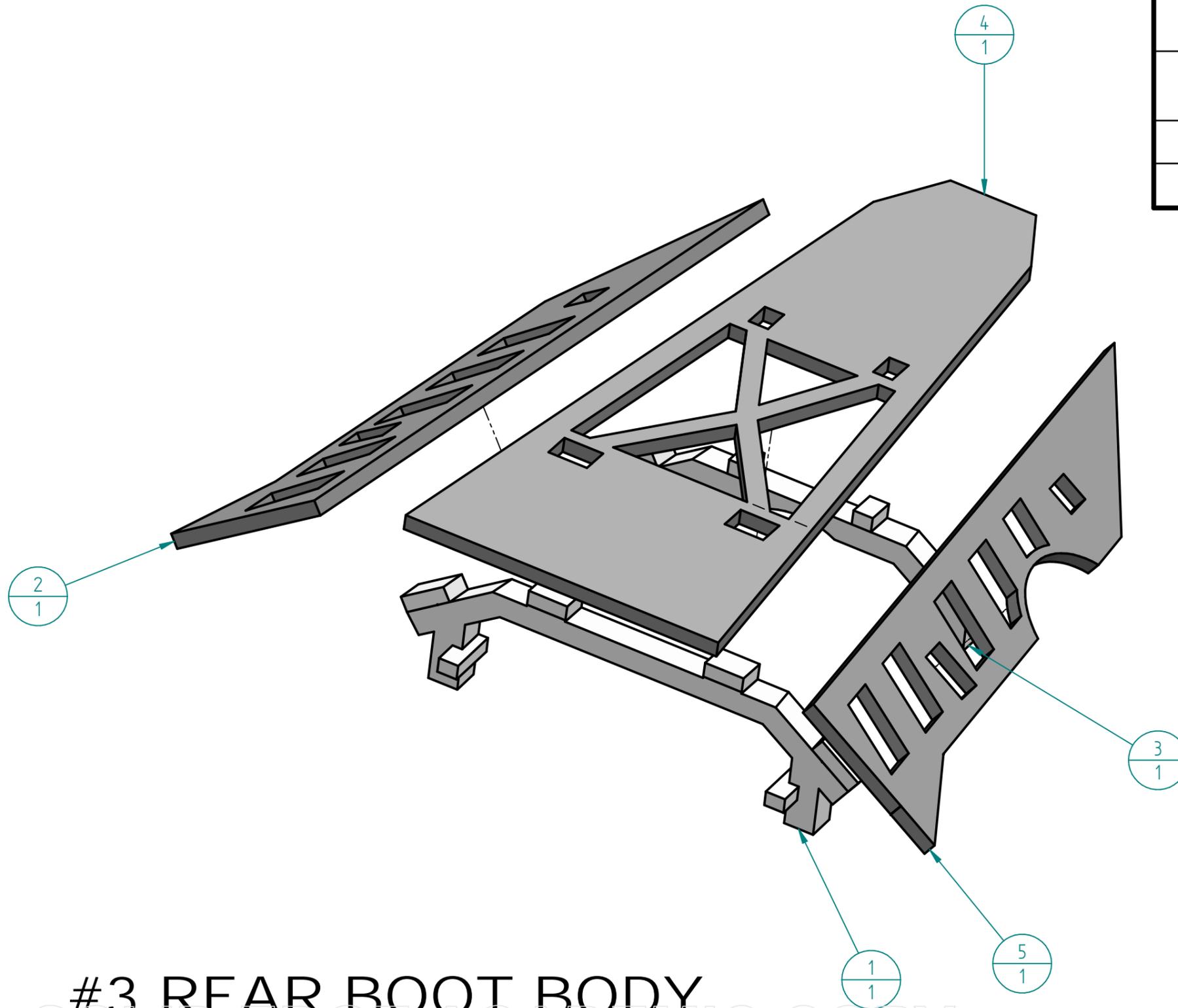
(#6) #4 MID TOP PANNEL
 Scale 2.5:1

Joshua.Hall
 08/22/22

Unless otherwise specified, all measurements are in Millimetres

Title:	JH RC - Rear Assembly	
Size	Drw No.	Rev
A3	1	1
FILE NAME: JH RC - chassis rear.dft		
Scale:	Checked:	SHEET 23 OF 29

Item Number	File Name (no extension)	Author	Quantity
1	JH RC - rear boot brace mid	chris	1
2	JH RC - rear boot side right 2	chris	1
3	JH RC - rear boot brace back	chris	1
4	JH RC - rear boot pannel	chris	1
5	JH RC - rear boot side left	chris	1

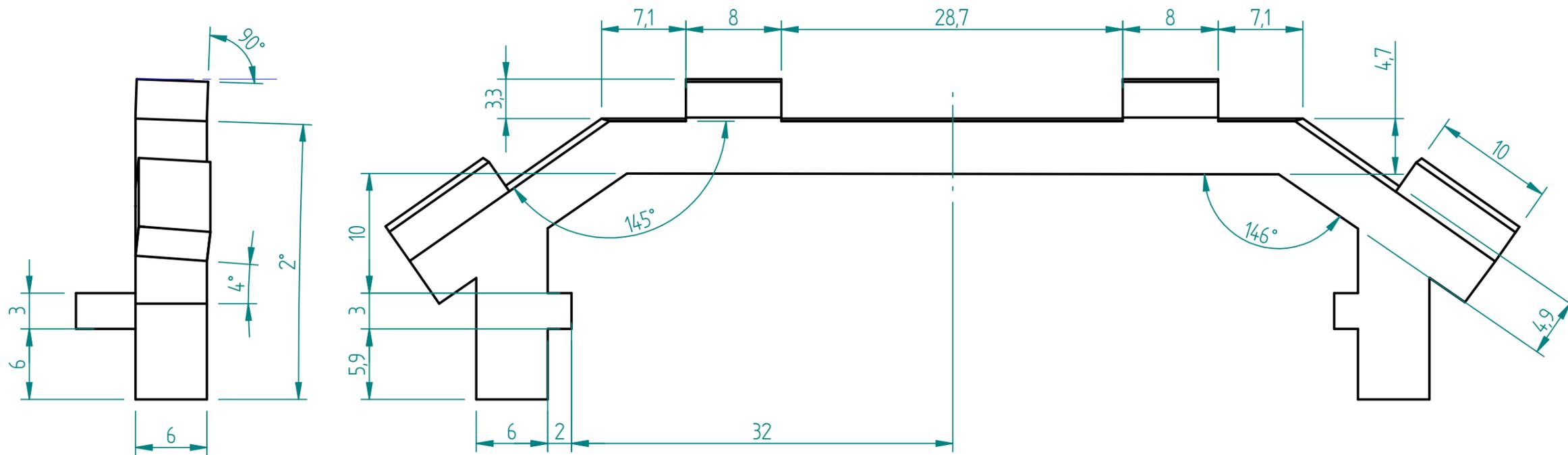
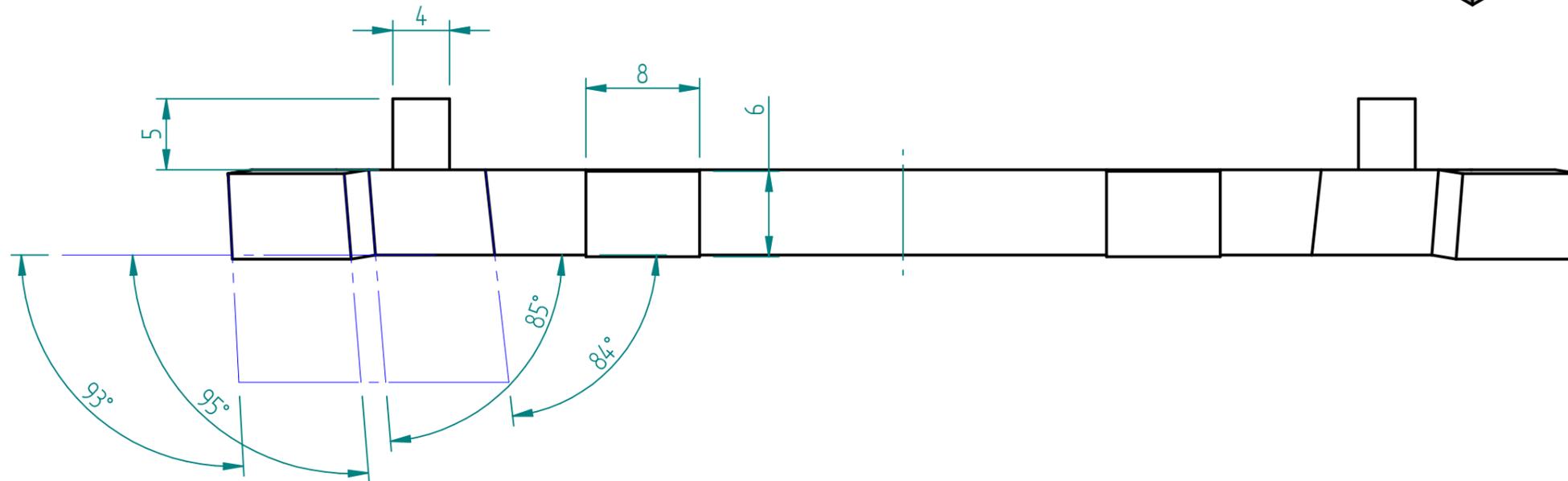
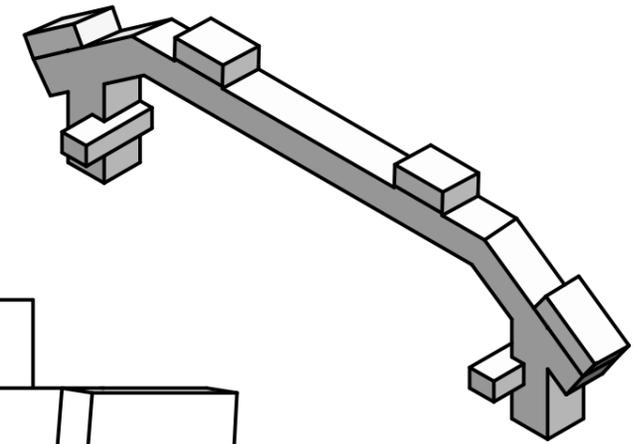


#3 REAR BOOT BODY

SOLID EDGE ACADEMIC COPY

 Joshua.Hall 08/22/22	Title: JH RC - Rear Assembly	
	Size: A3	Drw No. 1
FILE NAME: JH RC - chassis rear.dft		
Scale:	Checked:	SHEET 24 OF 29

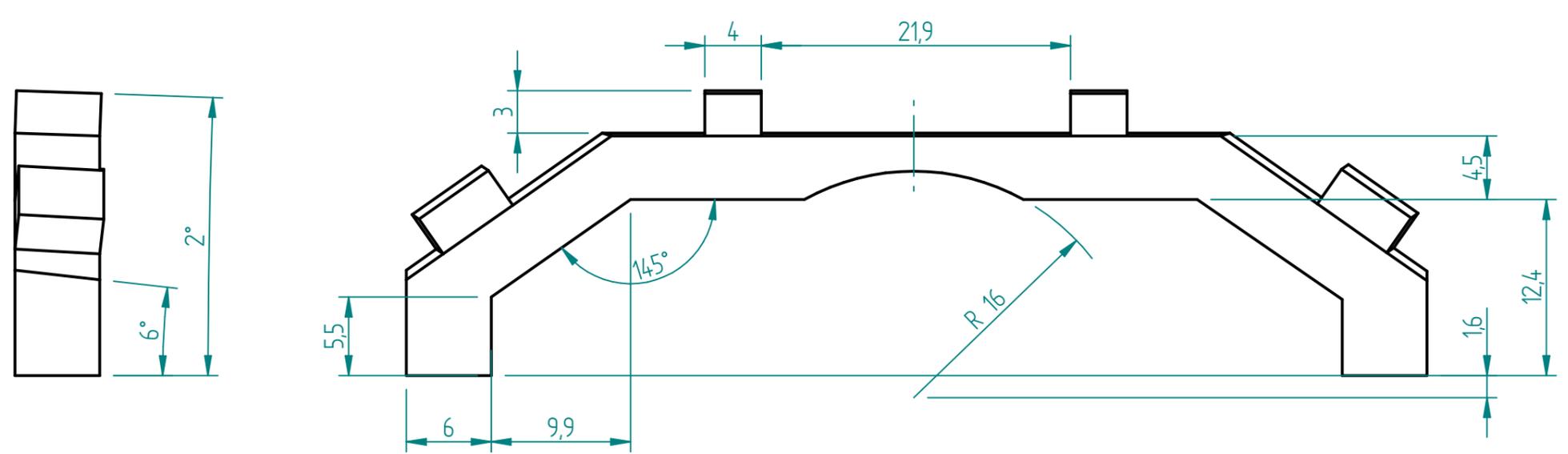
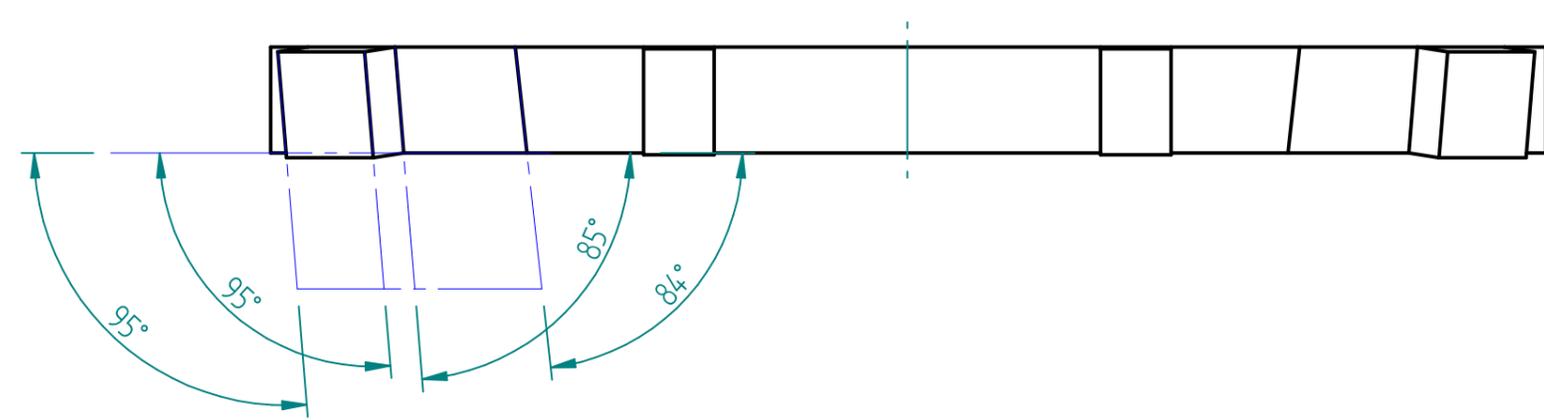
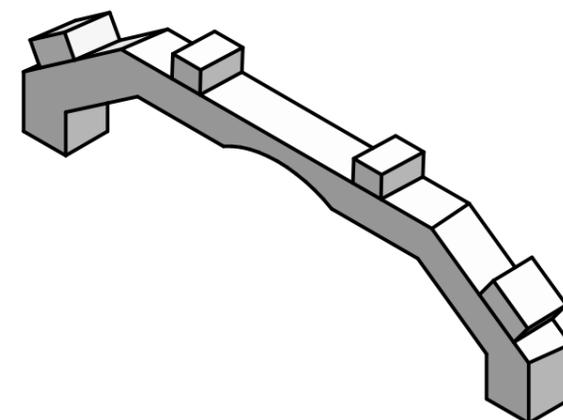
Unless otherwise specified, all measurements are in Millimetres



(#3) #1 REAR BOOT BRACE MID
 Scale 2.5:1

 Joshua.Hall 08/22/22	Title: JH RC - Rear Assembly	
	Size A3	Drw No. 1
FILE NAME: JH RC - chassis rear.dft		
Scale:	Checked:	SHEET 25 OF 29

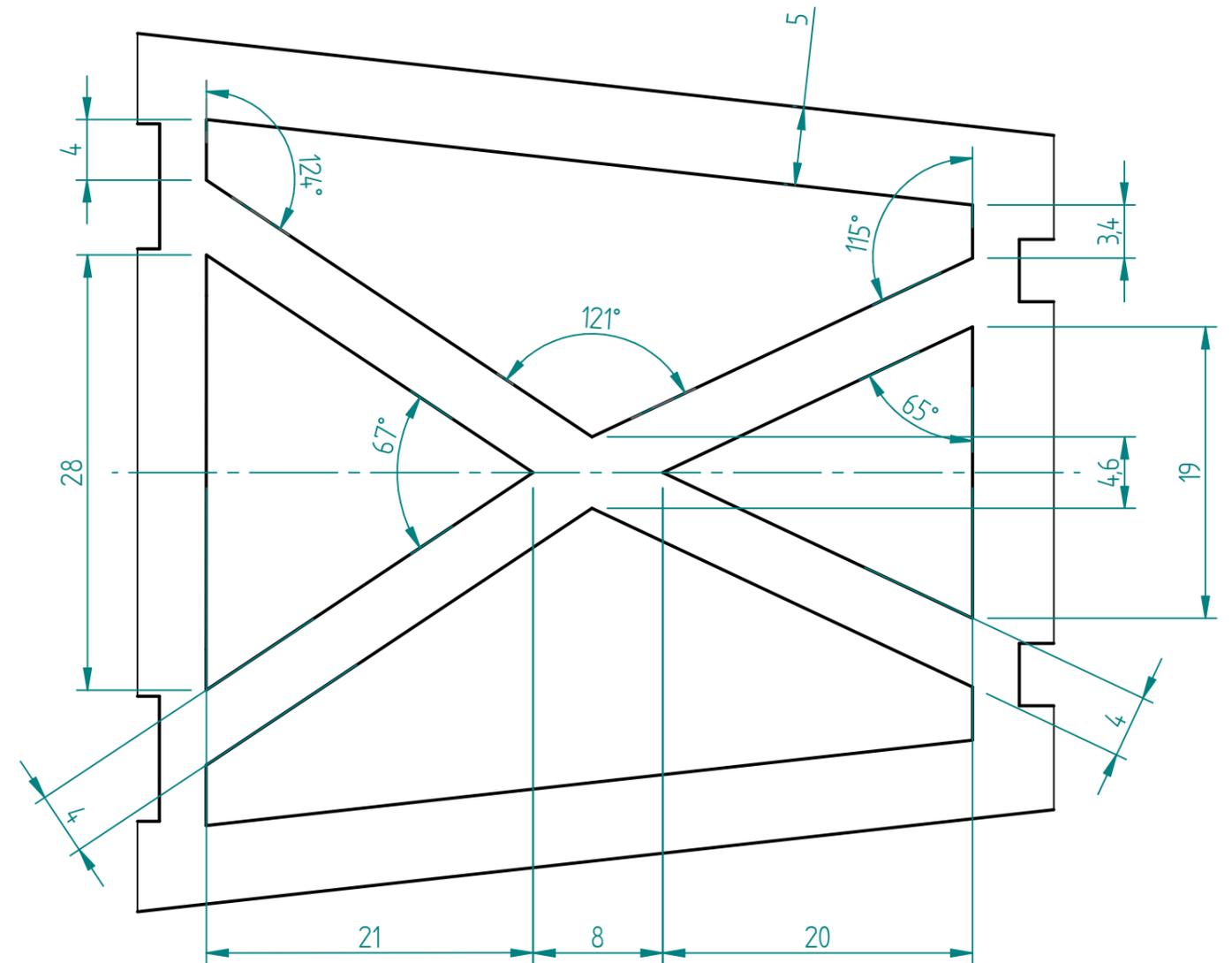
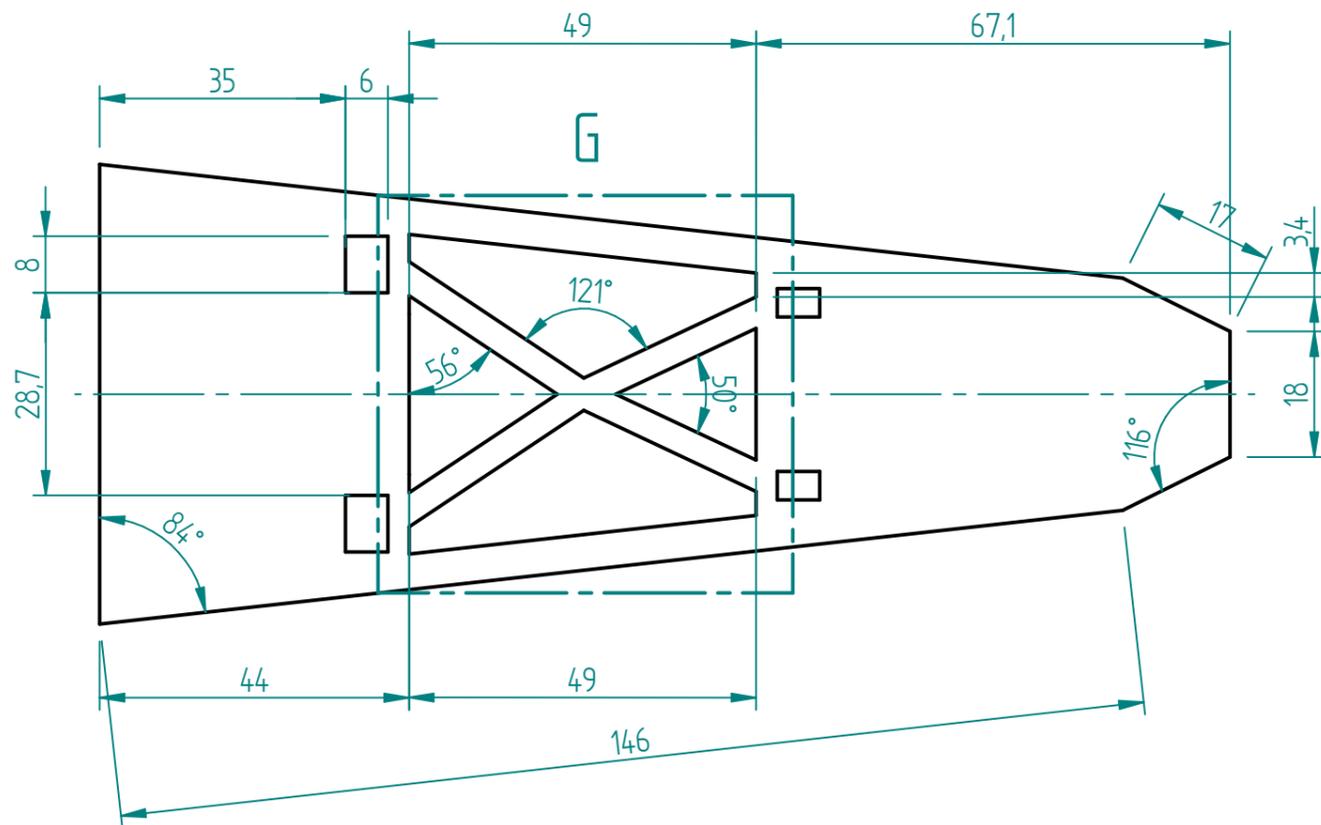
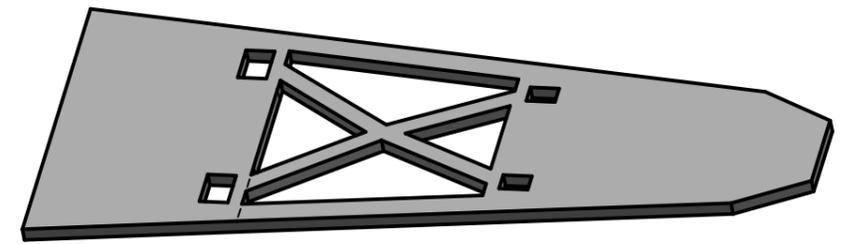
Unless otherwise specified, all measurements are in Millimetres



(#3) #3 REAR BOOT BRACE BACK
 Scale 2.5:1


 Joshua.Hall
 08/22/22
 Unless otherwise specified, all measurements are in Millimetres

Title:		JH RC - Rear Assembly	
Size	Drw No.	Rev	
A3	1	1	
FILE NAME: JH RC - chassis rear.dft			
Scale:	Checked:	SHEET 27 OF 29	

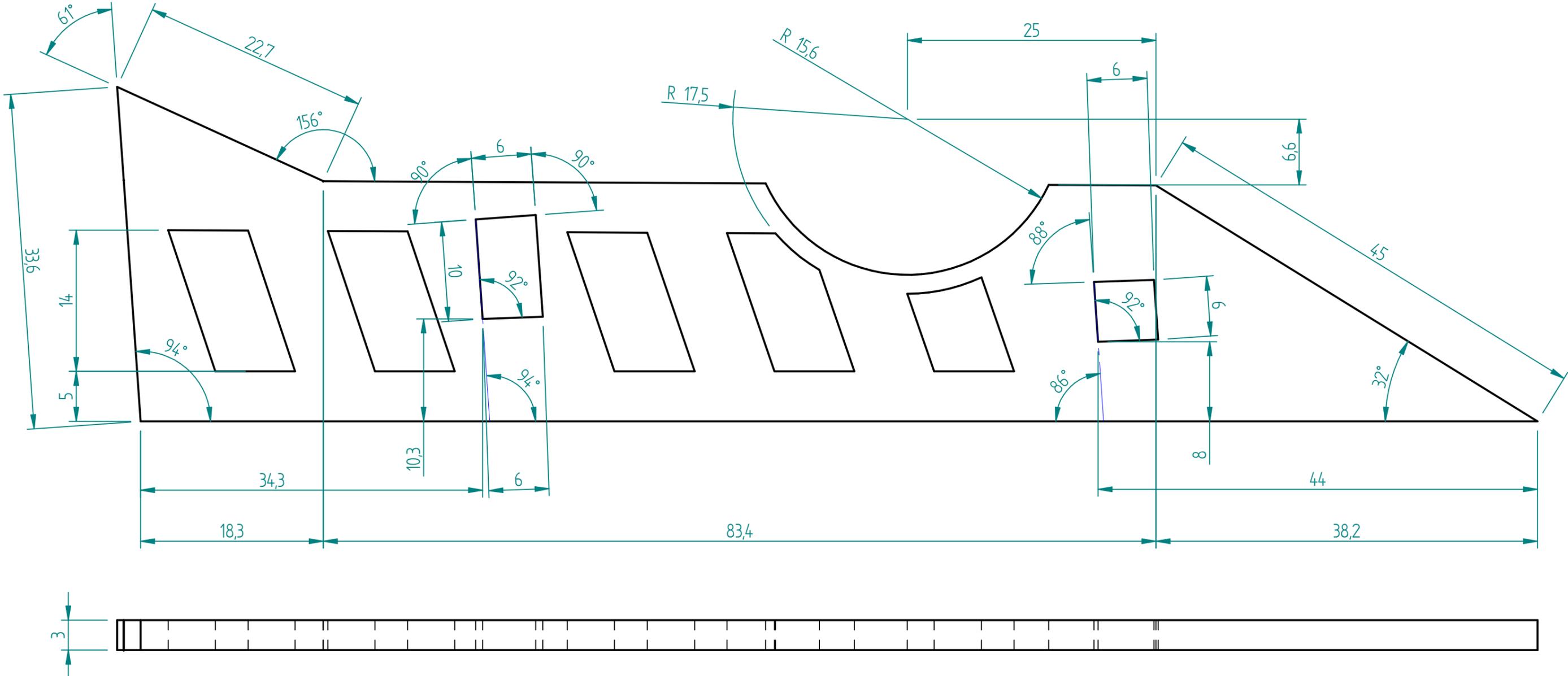
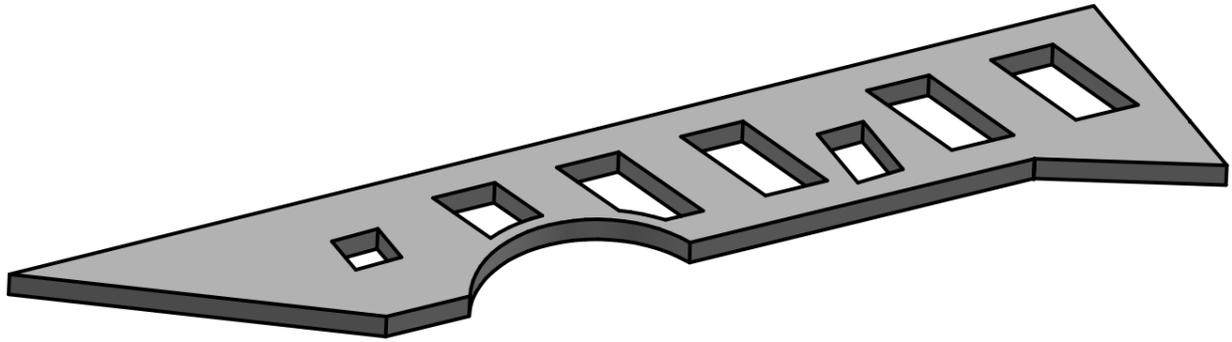


(#6) #4 DETAIL G
Scale 2.5:1

(#6) #4 REAR BOOT TOP PANNEL
Scale 1:1

 Joshua.Hall 08/22/22	Title: JH RC - Rear Assembly		
	Size A3	Drw No. 1	Rev 1
FILE NAME: JH RC - chassis rear.dft			
Scale:	Checked:	SHEET 28 OF 29	

Unless otherwise specified, all measurements are in Millimetres

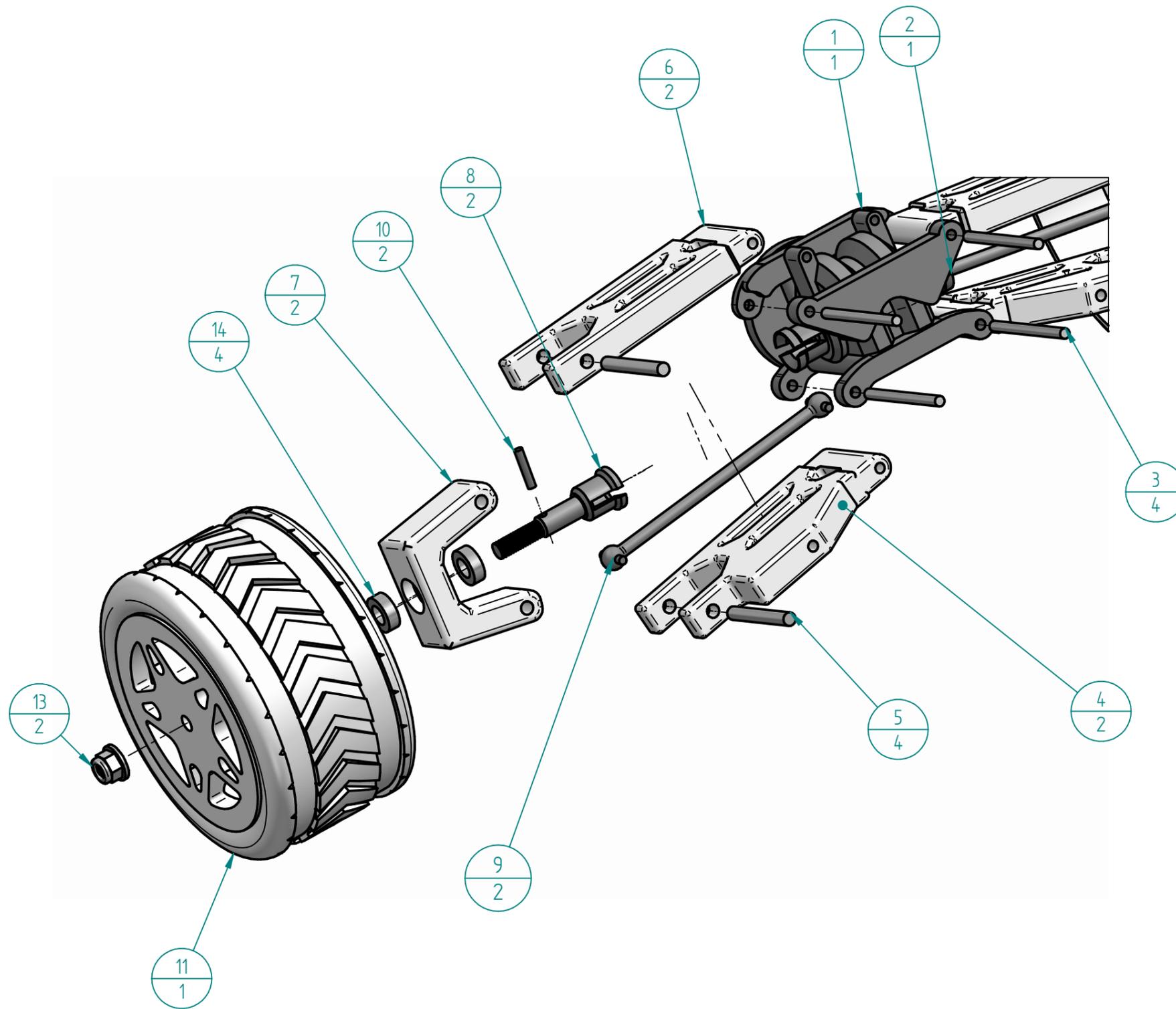


(#6) #5 REAR BOOT LEFT PANNEL

Scale 2.5:1


 Joshua.Hall
 08/22/22
 Unless otherwise specified, all measurements are in Millimetres

Title:		JH RC - Rear Assembly	
Size	Drw No.	Rev	
A3	1	1	
FILE NAME: JH RC - chassis rear.dft			
Scale:	Checked:	SHEET 29 OF 29	



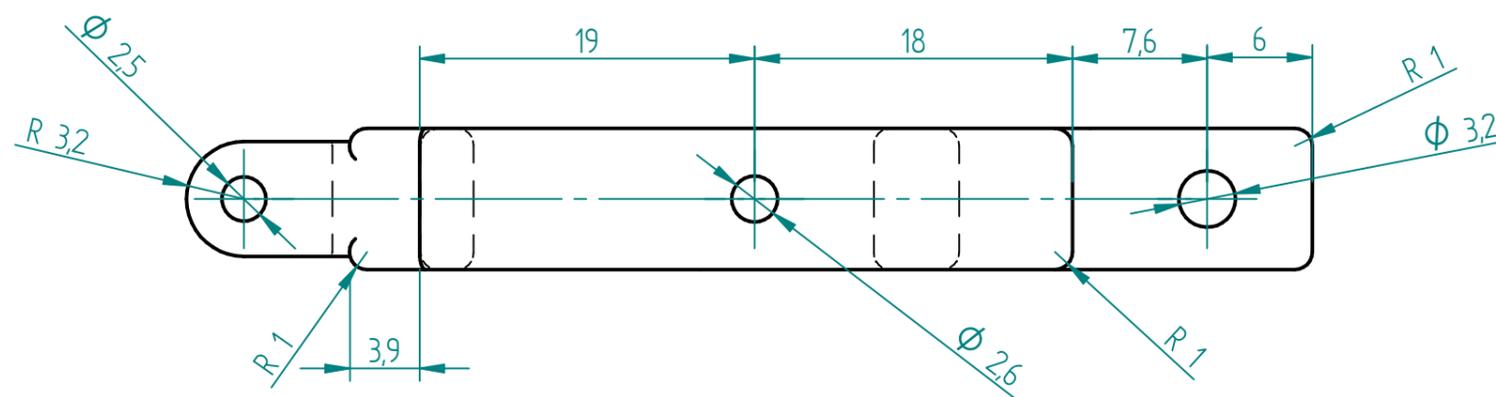
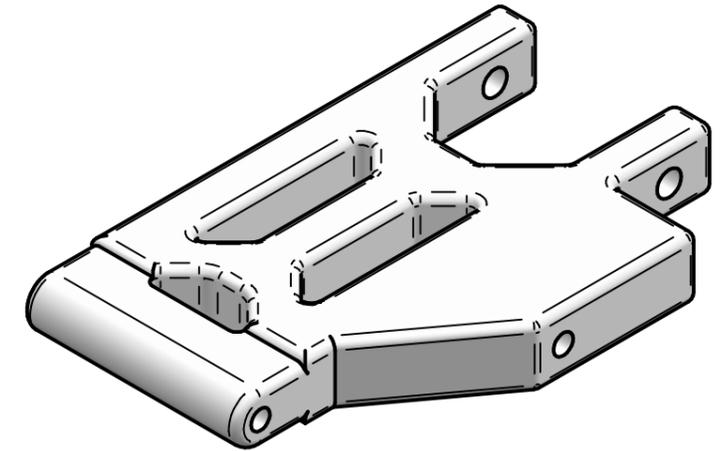
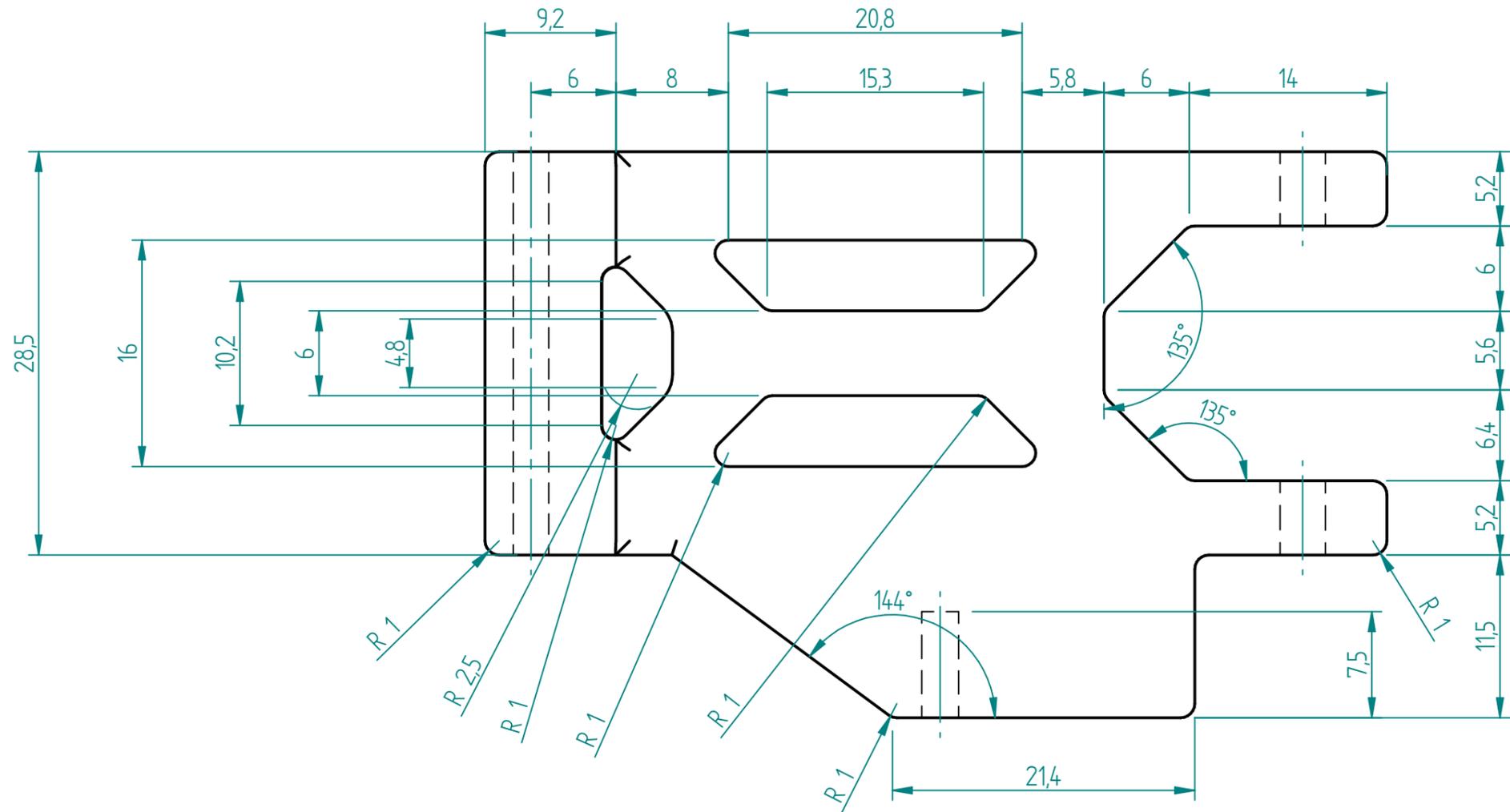
Item Number	File Name (no extension)	Quantity
	JH RC - chassis rear drive unit	
1	JH RC - diff placeholder	1
2	JH RC - diff linkage	1
3	2.4 x 37.7 rod	4
4*	JH RC - fixed lower arm 2	2
5	JH RC - 3.2x30 rod	4
6	JH RC - fixed upper arm 3	2
7	JH RC - arm connector	2
8	JH RC - rear ball joint cup	2
9*	JH RC - ball joint axle	2
10	JH Rc - 2x10 pin	2
11	JH RC - 75d 40w threaded left	1
12*	JH RC - 75d 40w threaded right	1
13	JH RC - wheel nut	2
14	JH RC - 9x3 bearing	4

#15 REAR DRIVE UNIT

SOLID EDGE ACADEMIC COPY

 Joshua.Hall 09/05/22	Title: JH RC - Rear Assembly	
	Size: A3	Drw No. 2
FILE NAME: JH RC - rear drive and parts.dft		
Scale:	Checked:	SHEET 1 OF 15

Unless otherwise specified, all measurements are in Millimetres



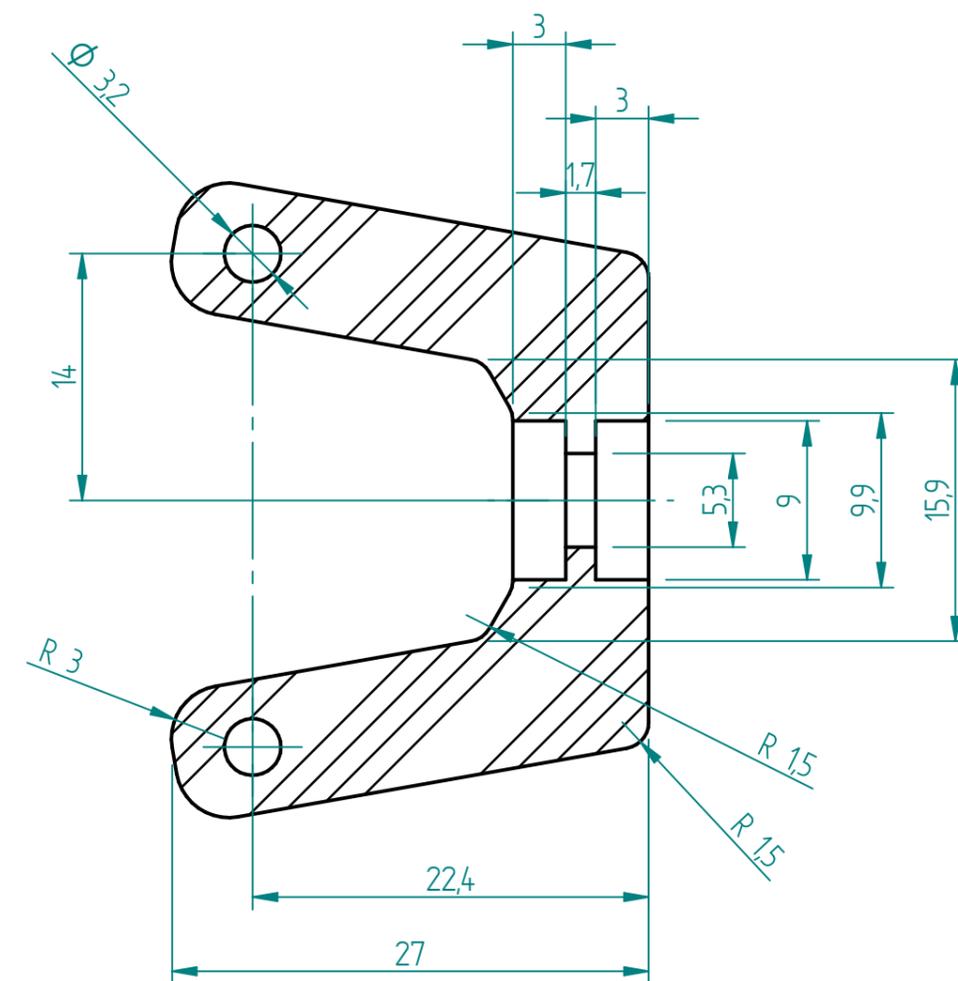
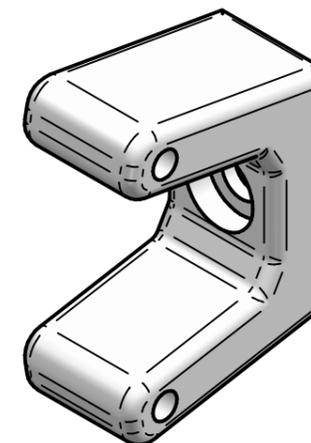
(#15) #5 FIXED LOWER ARM
Scale 2.5:1

Joshua.Hall
09/05/22

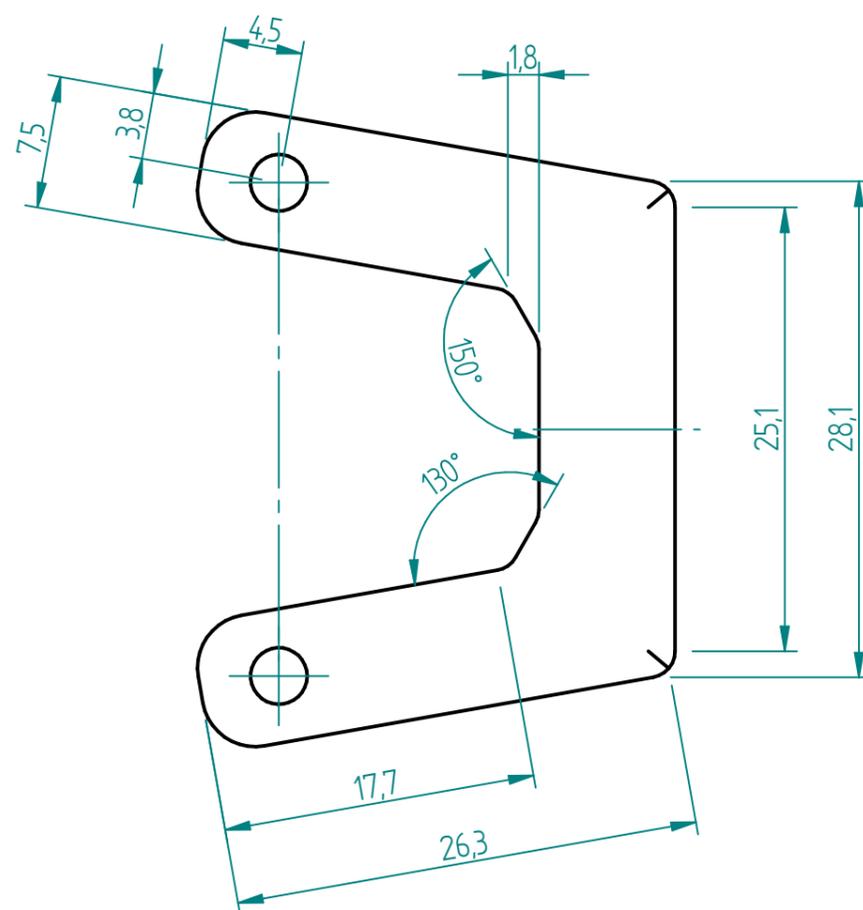
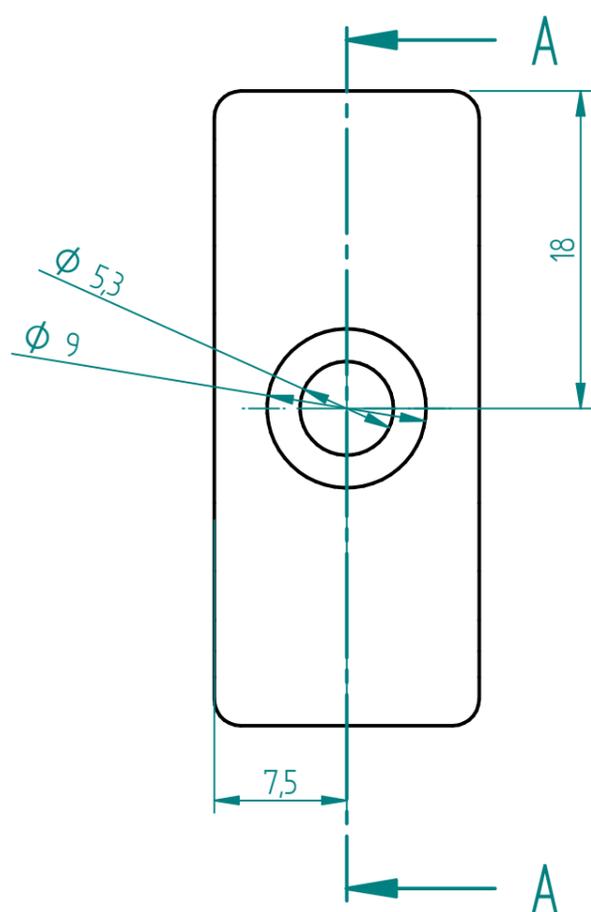


Unless otherwise specified, all measurements are in Millimetres

Title:	JH RC - Rear Assembly		
Size	Drw No.	Rev	
A3	2	1	
FILE NAME:	JH RC - rear drive and parts.dft		
Scale:	Checked:	SHEET 2 OF 15	



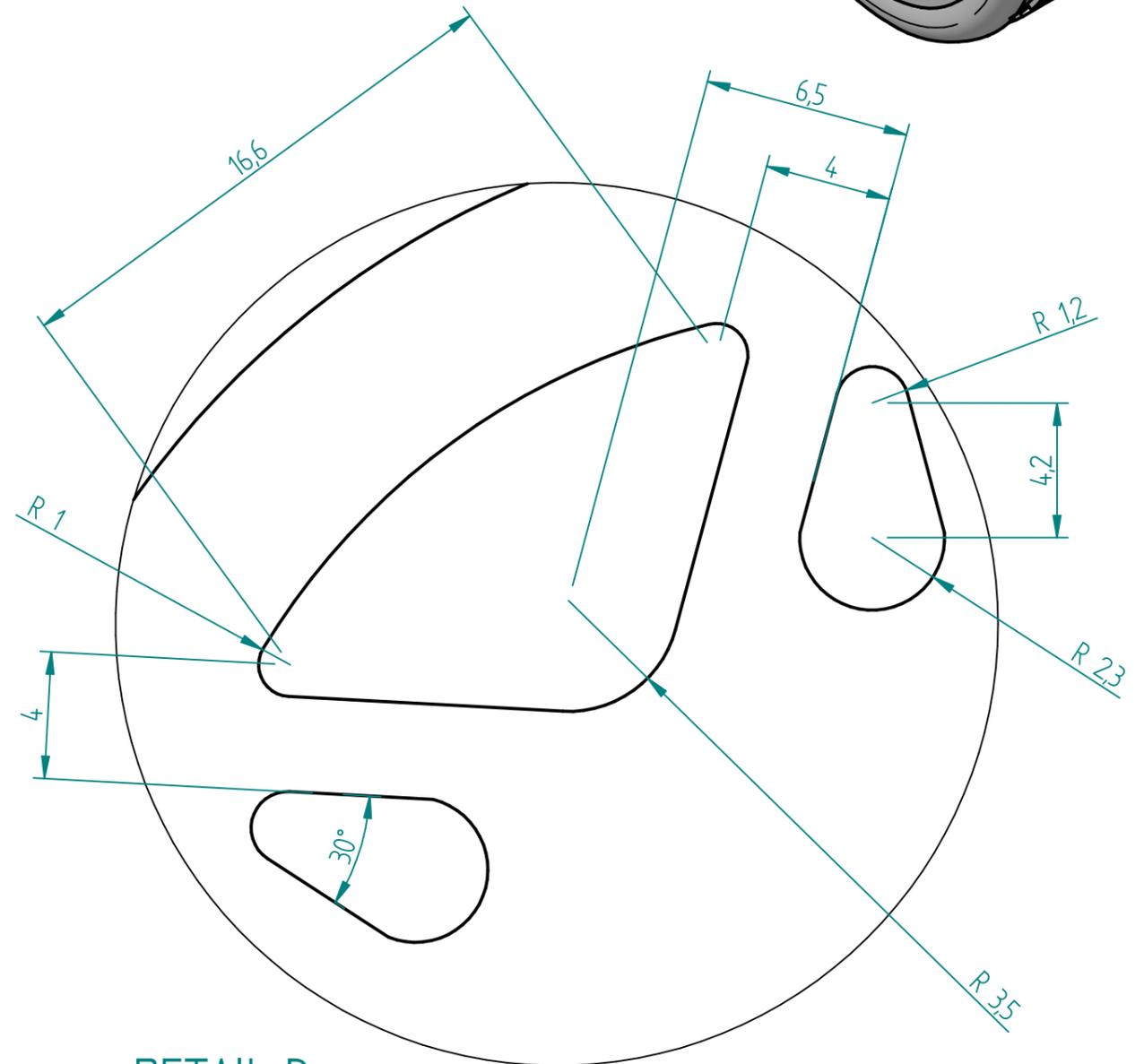
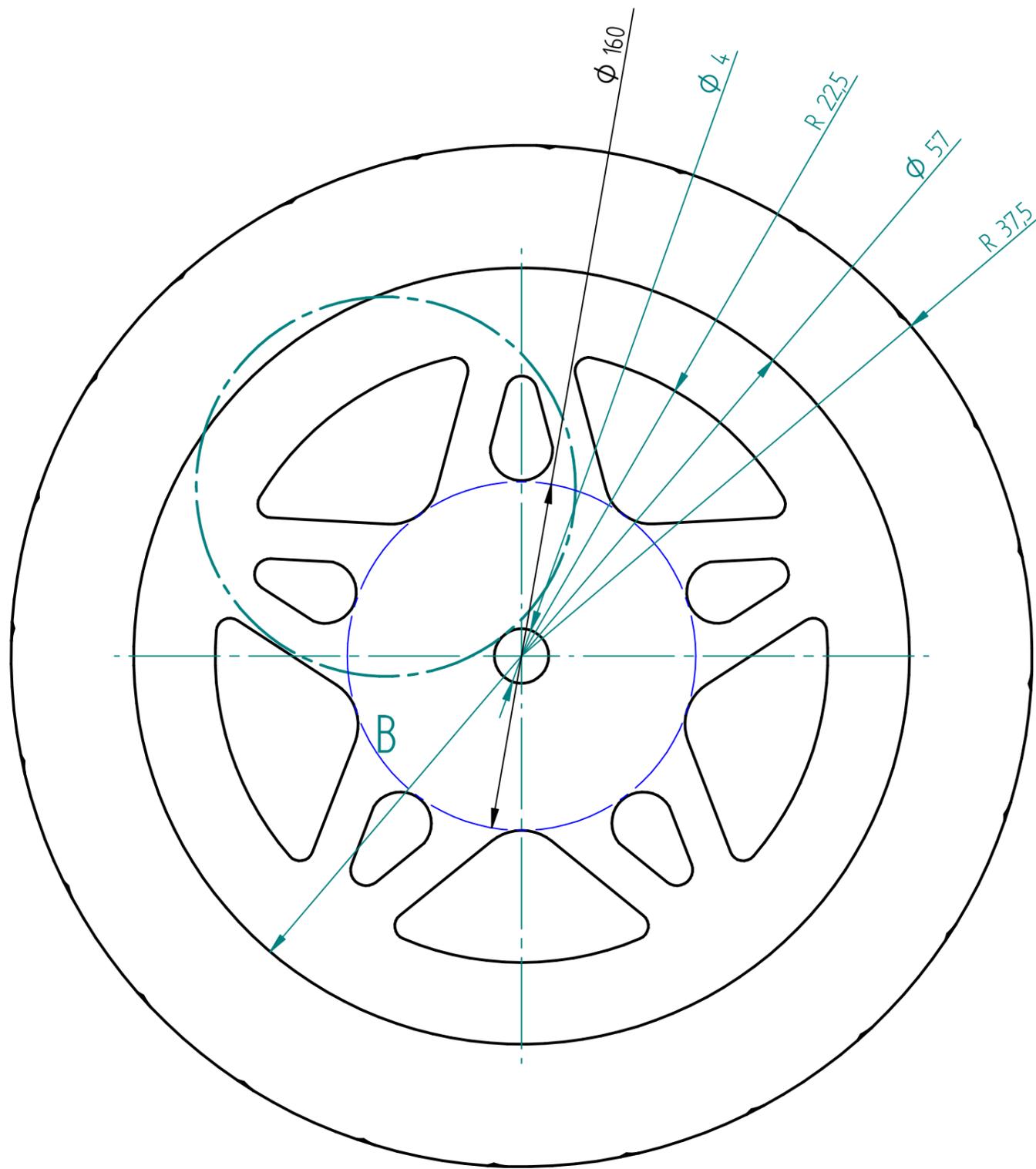
SECTION A-A



(#15) #7 ARM CONNECTOR
Scale 2.5:1

 Joshua.Hall 09/05/22	Title: JH RC - Rear Assembly	
	Size A3	Drw No. 2
FILE NAME: JH RC - rear drive and parts.dft		
Scale:	Checked:	SHEET 4 OF 15

Unless otherwise specified, all measurements are in Millimetres



DETAIL B

(#15) #11 REAR LEFT WHEEL

Scale 2.5:1

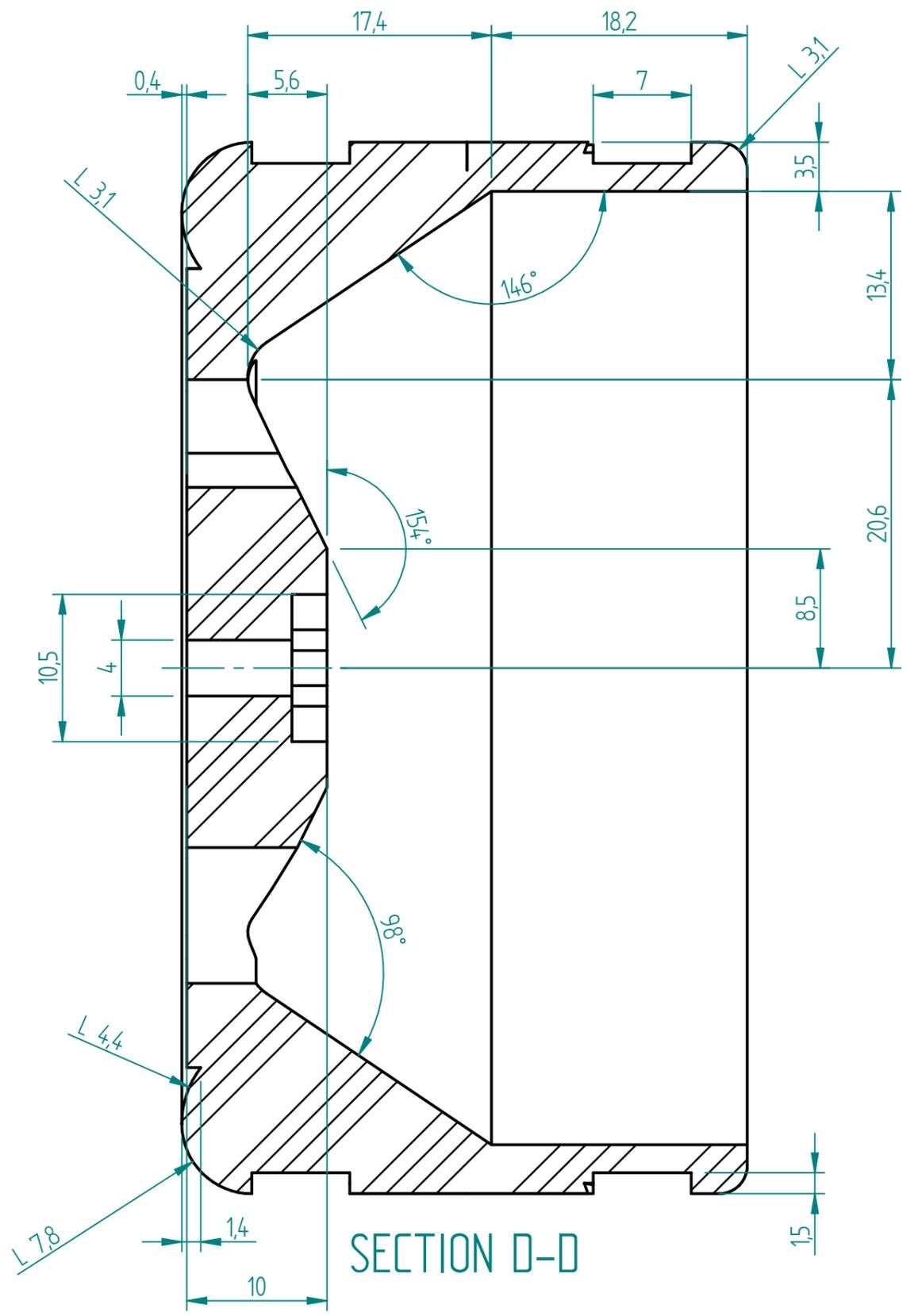
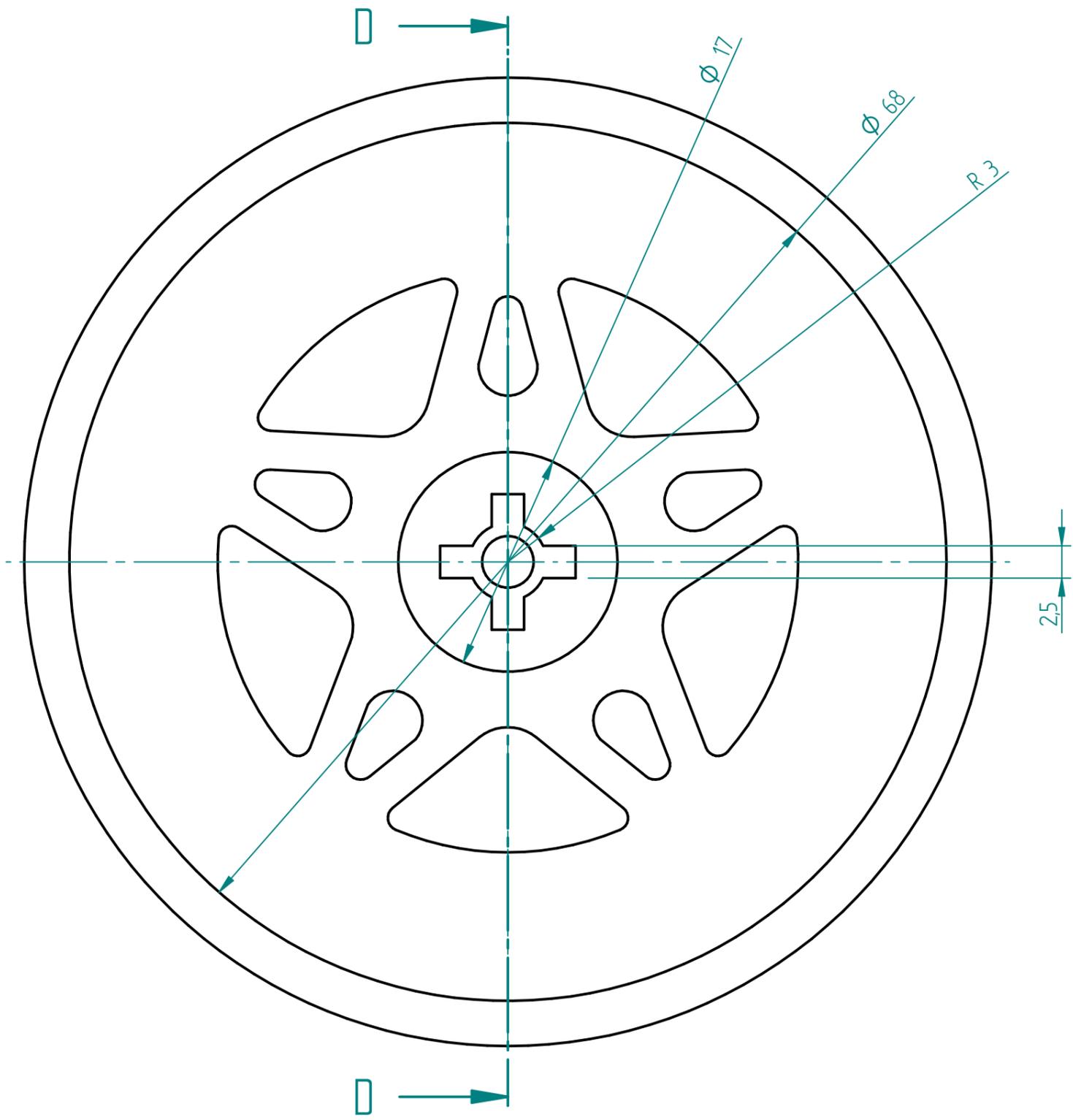


Joshua.Hall

09/05/22

Unless otherwise specified, all measurements are in Millimetres

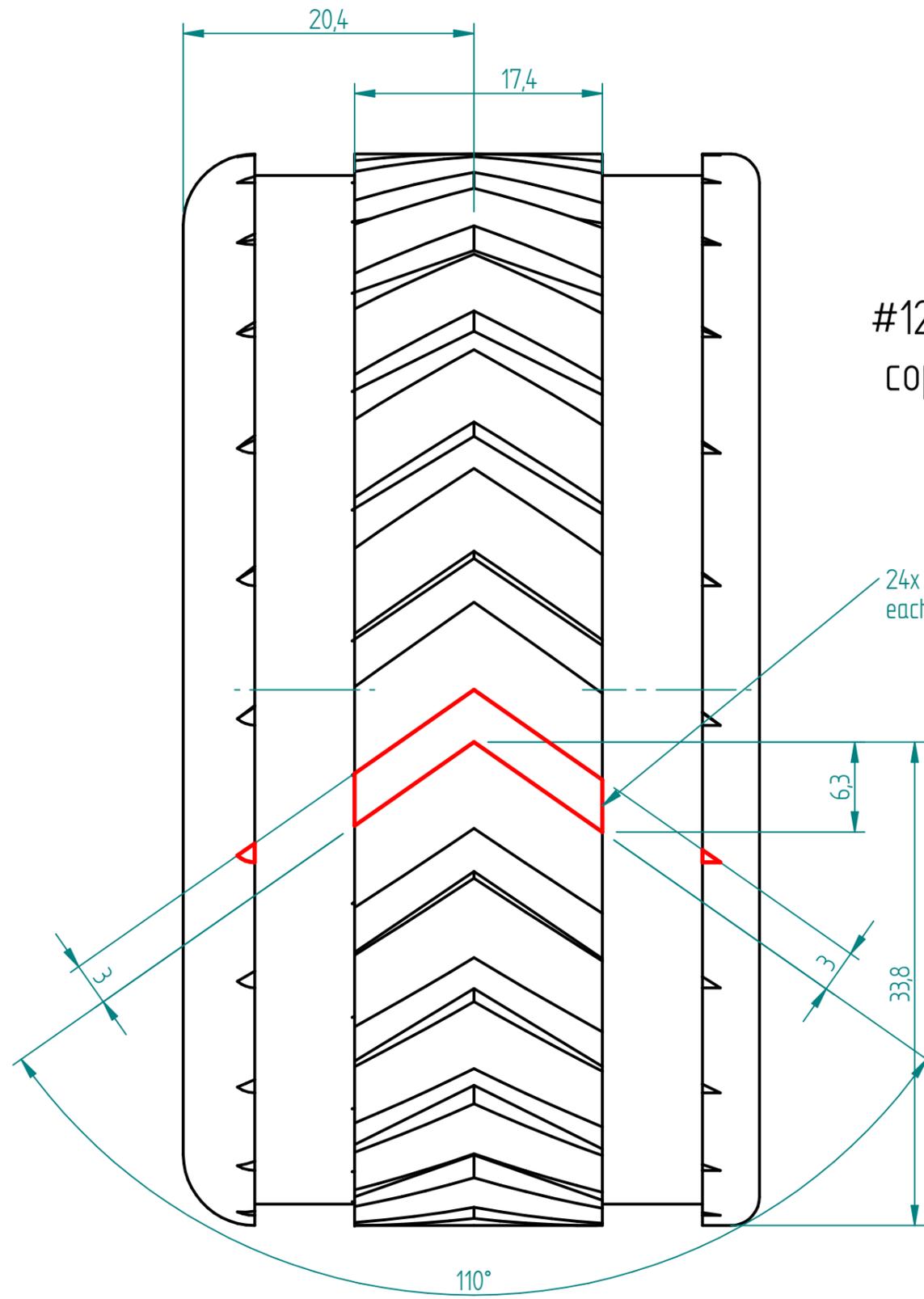
Title:		JH RC - Rear Assembly	
Size	Drw No.	Rev	
A3	2	1	
FILE NAME: JH RC - rear drive and parts.dft			
Scale:	Checked:	SHEET 5 OF 15	



(#15) #11 REAR LEFT WHEEL
 Scale 2.5:1

 Joshua.Hall 09/05/22		Title: JH RC - Rear Assembly	
Size A3	Drw No. 2	Rev 1	
FILE NAME: JH RC - rear drive and parts.dft			
Scale:	Checked:	SHEET 6 OF 15	

Unless otherwise specified, all measurements are in Millimetres



#12 Rear Right Wheel is a mirrored copy of #11 Rear Left Wheel

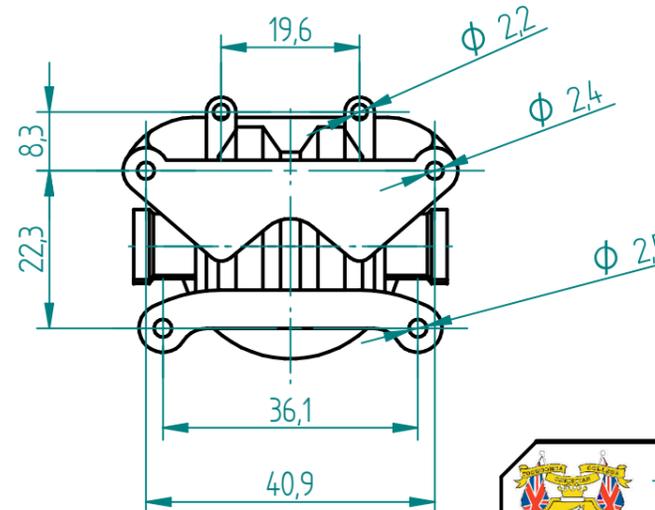
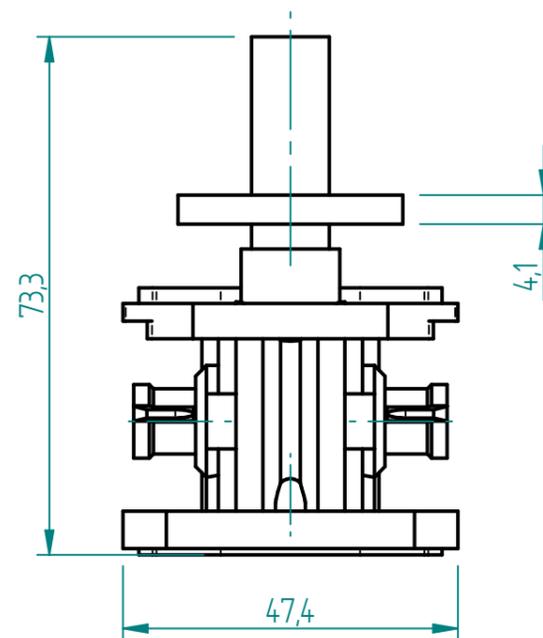
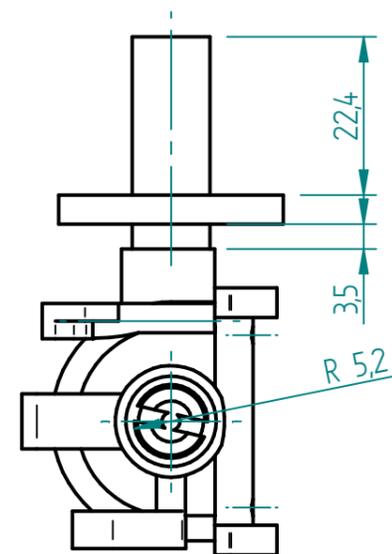
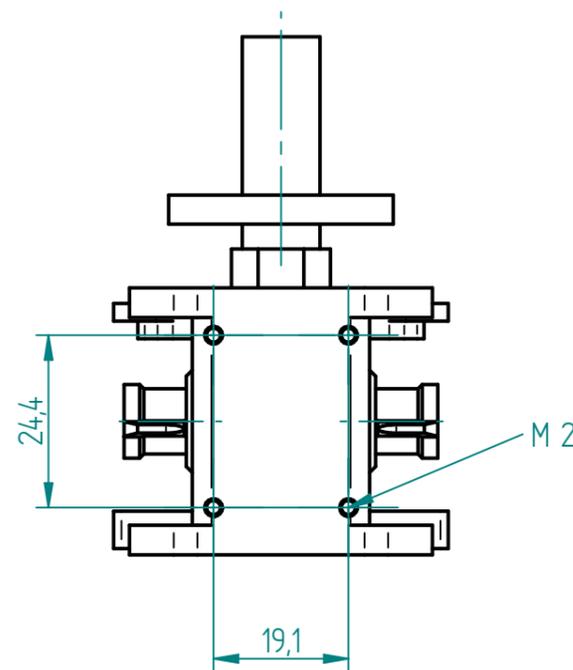
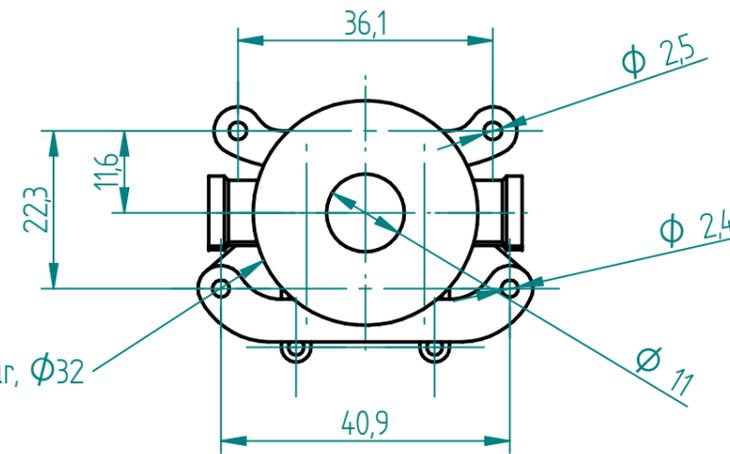
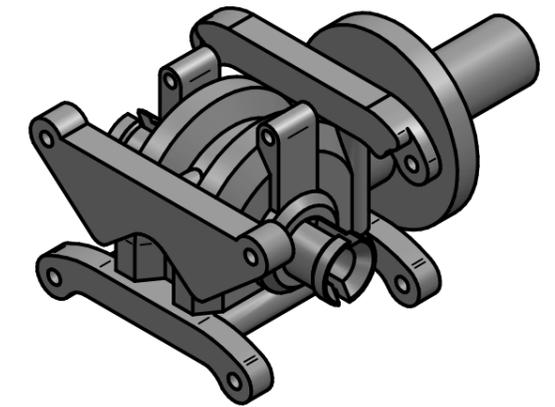
24x tread grooves, each groove is 1.5mm deep

(#15) #11 REAR LEFT WHEEL
Scale 2.5:1

Joshua.Hall
09/05/22

Unless otherwise specified, all measurements are in Millimetres

Title: JH RC - Rear Assembly		Rev 1
Size A3	Drw No. 2	Rev 1
FILE NAME: JH RC - rear drive and parts.dft		
Scale:	Checked:	SHEET 7 OF 15

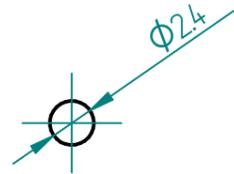
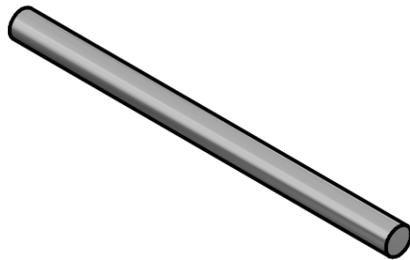
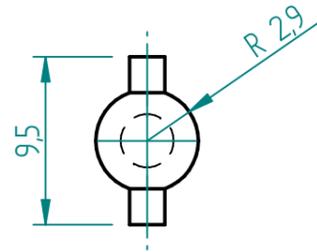
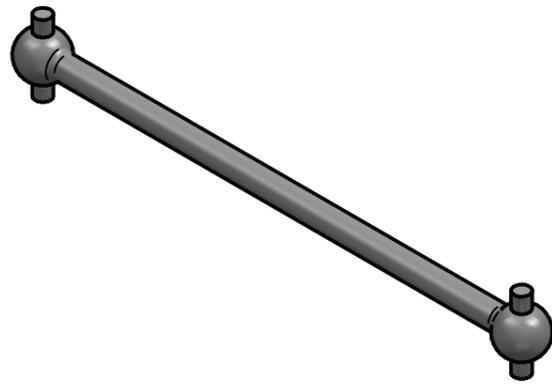


(#15) #1 DIFFERENTIAL
 Scale 1:1, Placeholder Part

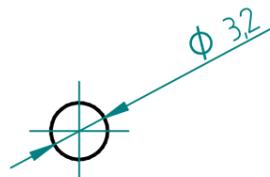
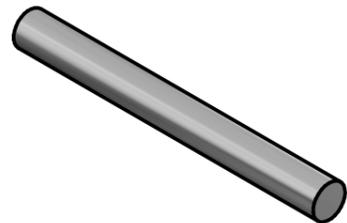

 Joshua.Hall
 09/05/22
 Unless otherwise specified, all measurements are in Millimetres

Title:		JH RC - Rear Assembly	
Size	Drw No.	Rev	
A3	2	1	
FILE NAME: JH RC - rear drive and parts.dft			
Scale:	Checked:	SHEET 8 OF 15	

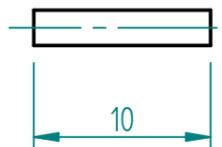
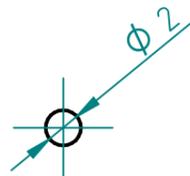
#9 BALL JOINT AXLE



#3 2.4x37.7



#5 3.2x30



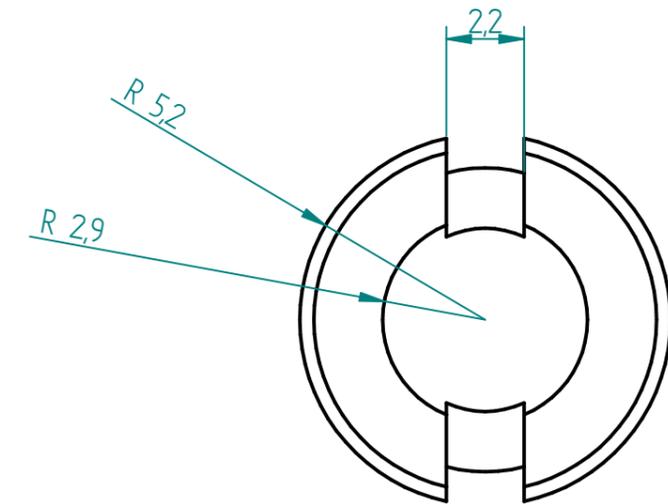
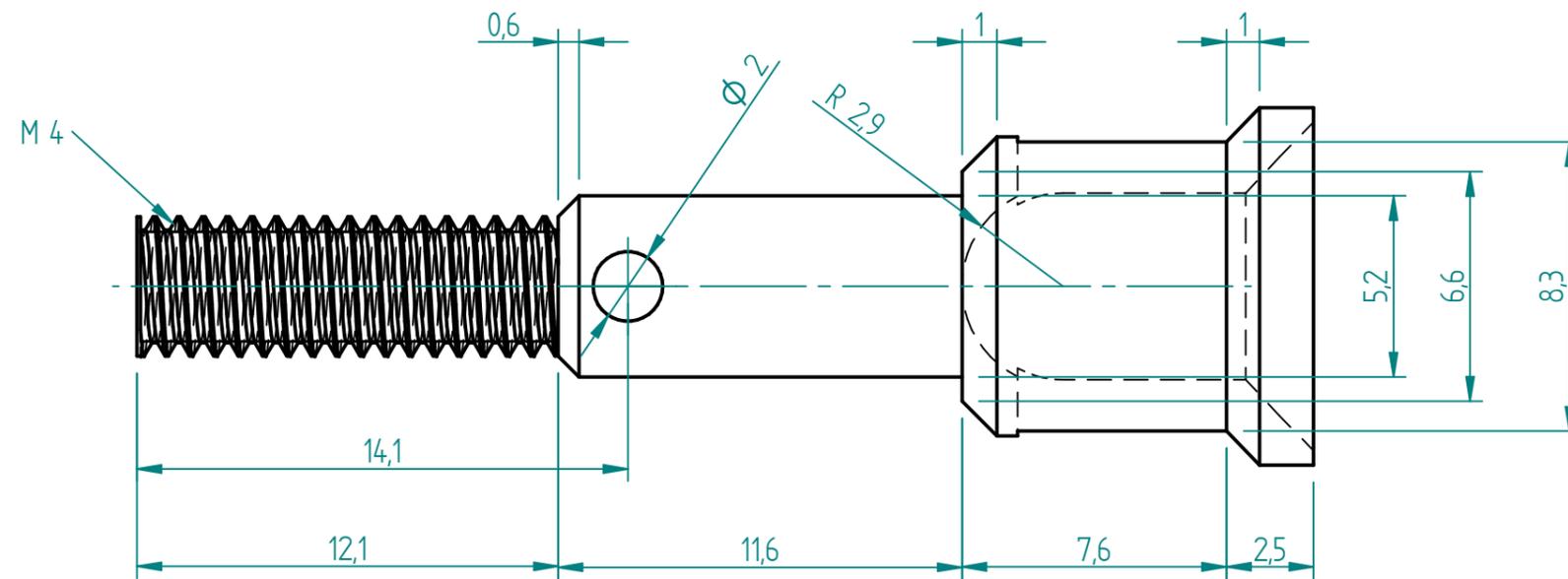
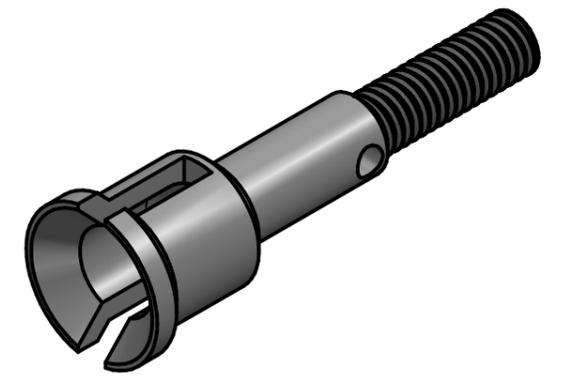
#10 2x10

(#15) LONG PARTS

Scale 2.5:1, Placeholder Parts


 Joshua.Hall
 09/05/22
 Unless otherwise specified, all measurements are in Millimetres

Title:		JH RC - Rear Assembly	
Size	Drw No.	Rev	
A3	2	1	
FILE NAME: JH RC - rear drive and parts.dft			
Scale:	Checked:	SHEET 9 OF 15	

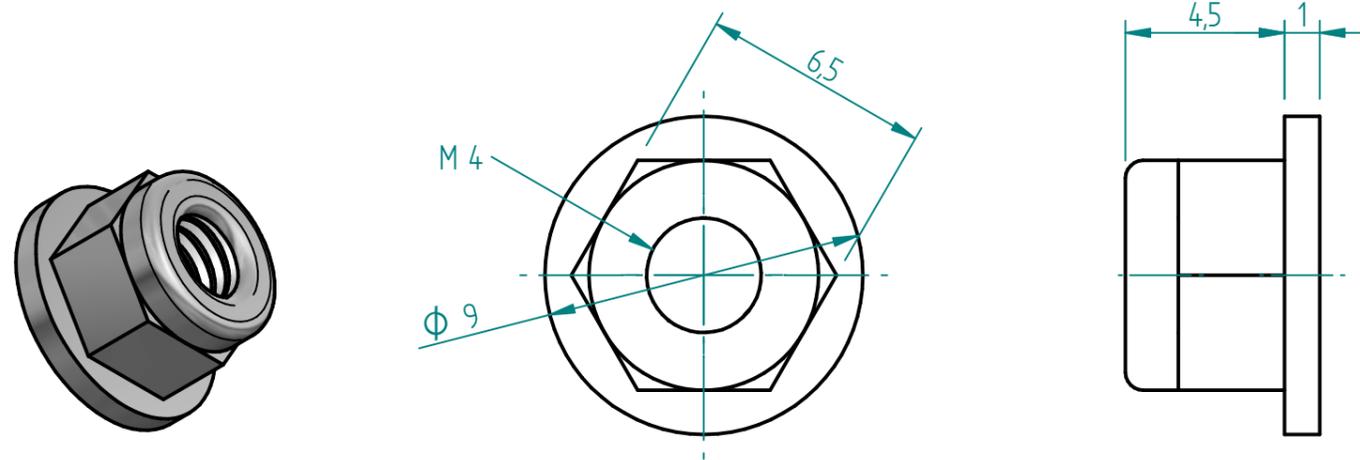


(#15) #8 REAR BALL JOINT CUP

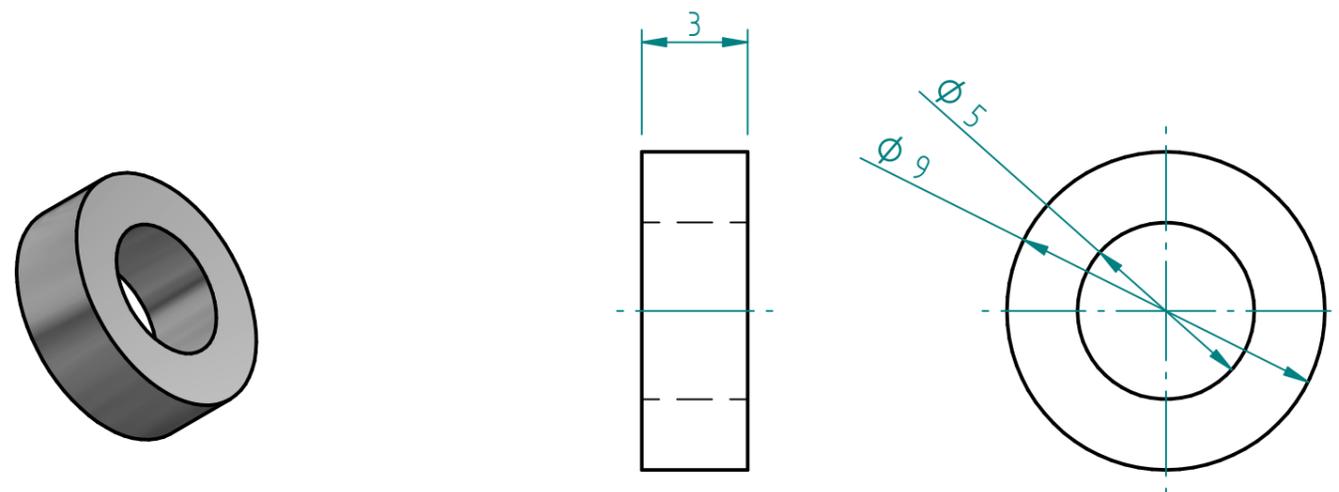
Scale 5:1, Placeholder Part

 Joshua.Hall 09/05/22	Title: JH RC - Rear Assembly	
	Size A3	Drw No. 2
FILE NAME: JH RC - rear drive and parts.dft		
Scale:	Checked:	SHEET 10 OF 15

Unless otherwise specified, all measurements are in Millimetres



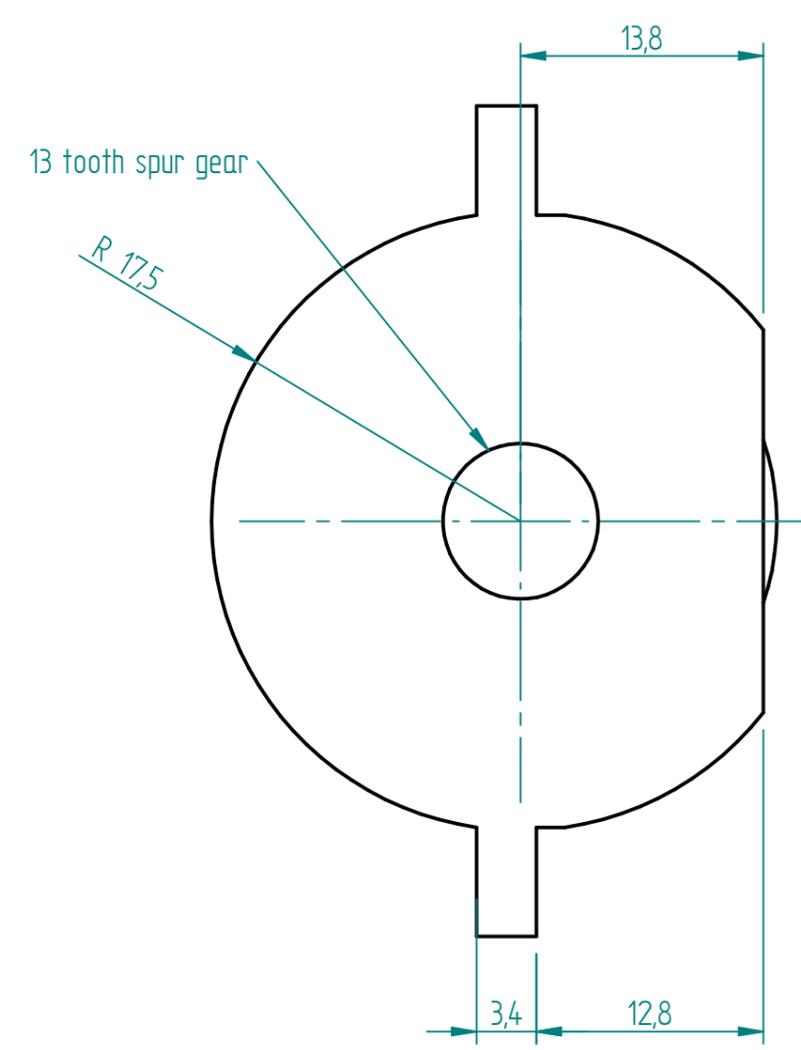
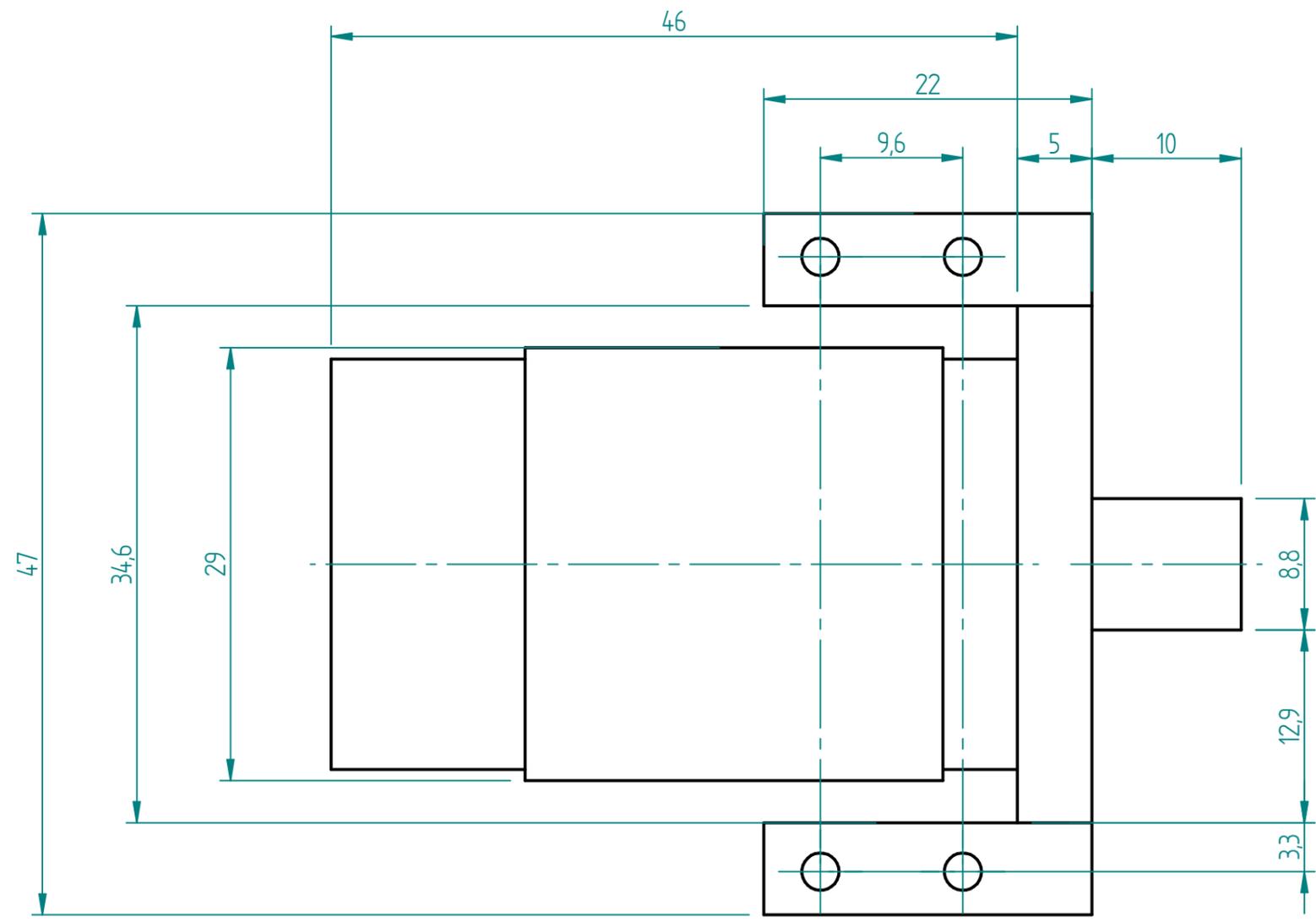
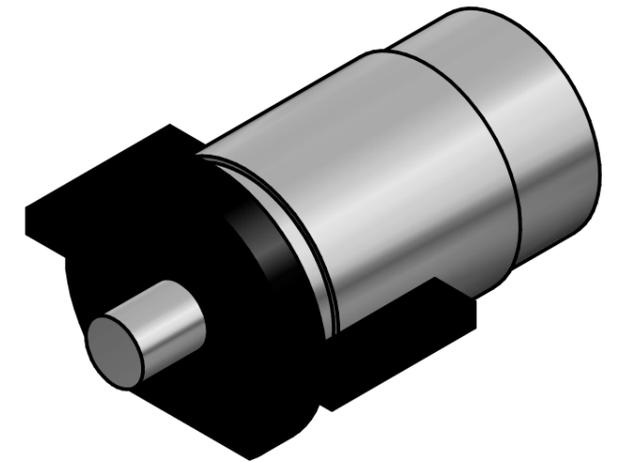
(#15) #13 WHEEL NUT
 Scale 5:1, Placeholder Part



(#15) #14 9x3 BEARING
 Scale 5:1, Placeholder Part

 Joshua.Hall 09/05/22	Title: JH RC - Rear Assembly	
	Size: A3	Drw No. 2
FILE NAME: JH RC - rear drive and parts.dft		
Scale:	Checked:	SHEET 11 OF 15

Unless otherwise specified, all measurements are in Millimetres



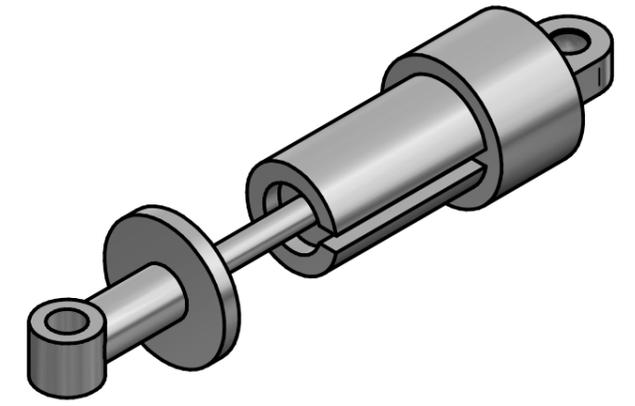
#2 390 MOTOR

Scale 2.5:1, Placeholder Part

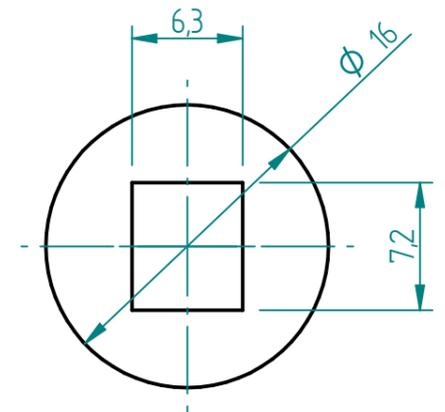
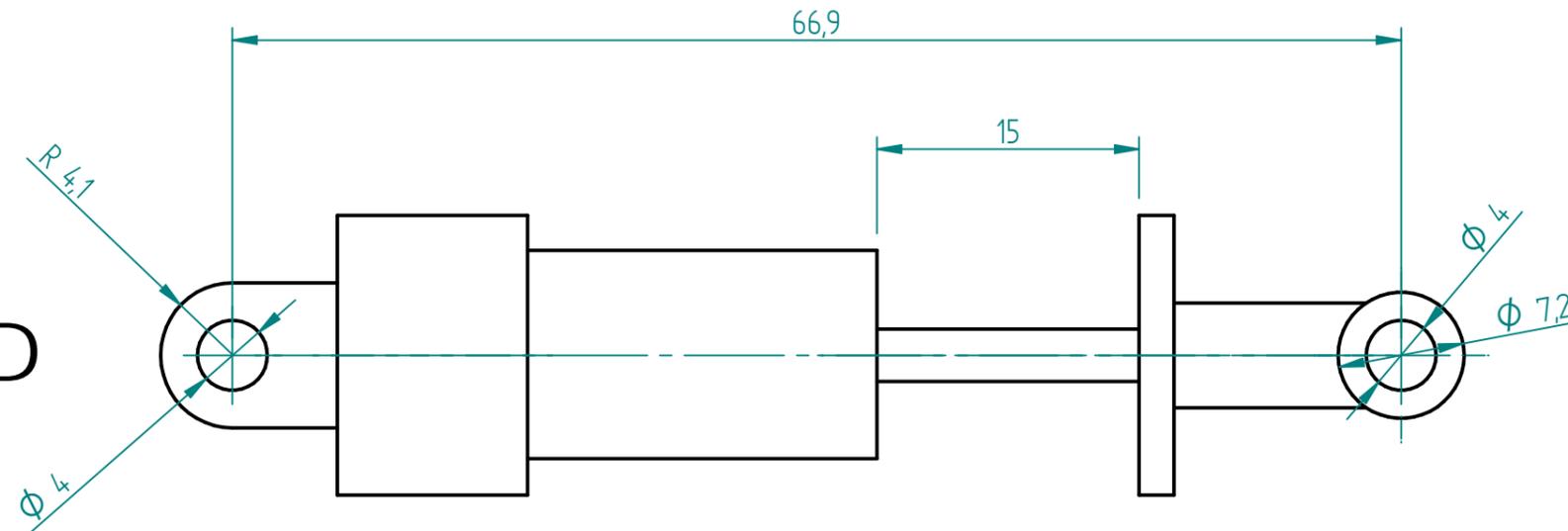
SOLID EDGE ACADEMIC COPY

 Joshua.Hall 09/05/22		Title: JH RC - Rear Assembly	
Size A3	Drw No. 2	Rev 1	
FILE NAME: JH RC - rear drive and parts.dft			
Scale:	Checked:	SHEET 12 OF 15	

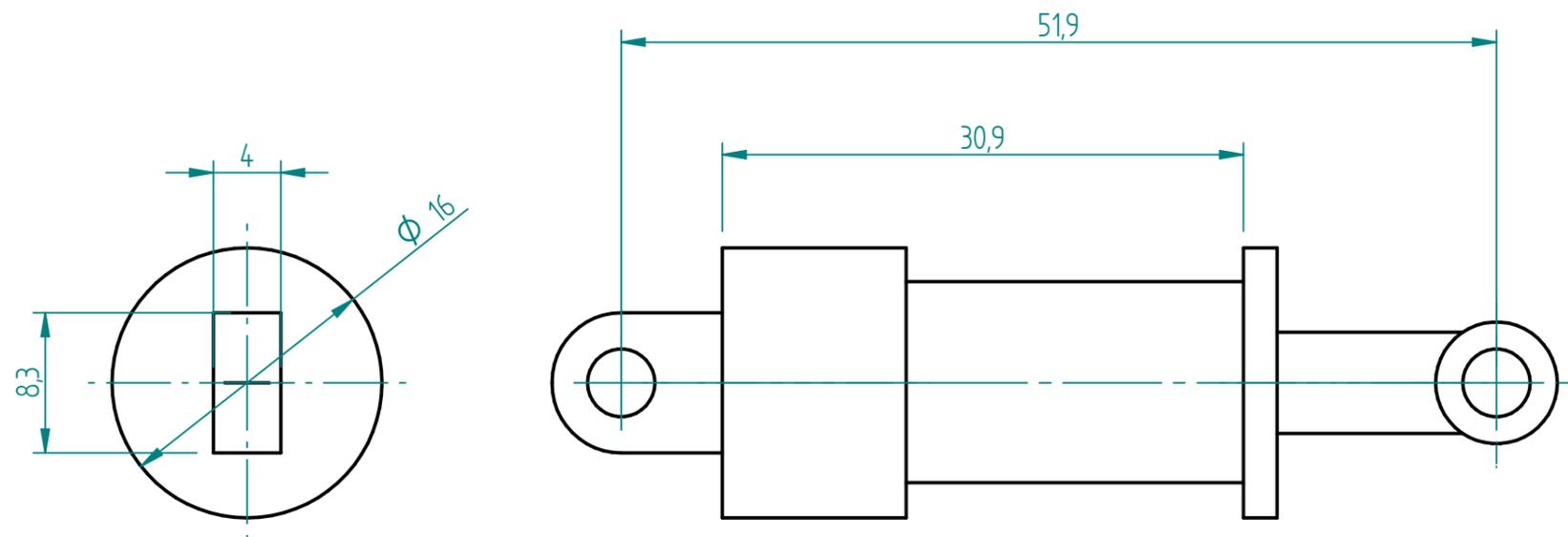
Unless otherwise specified, all measurements are in Millimetres



EXPANDED



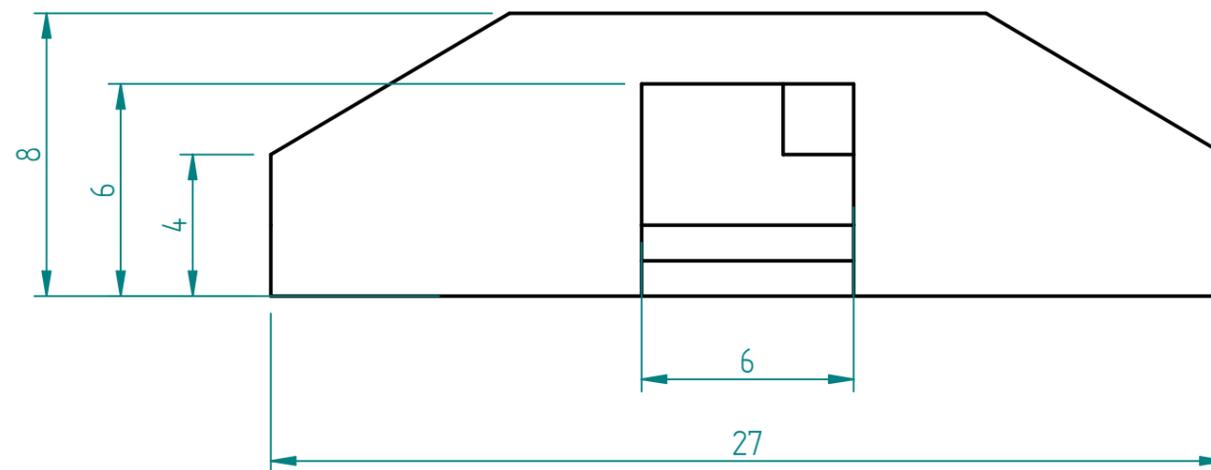
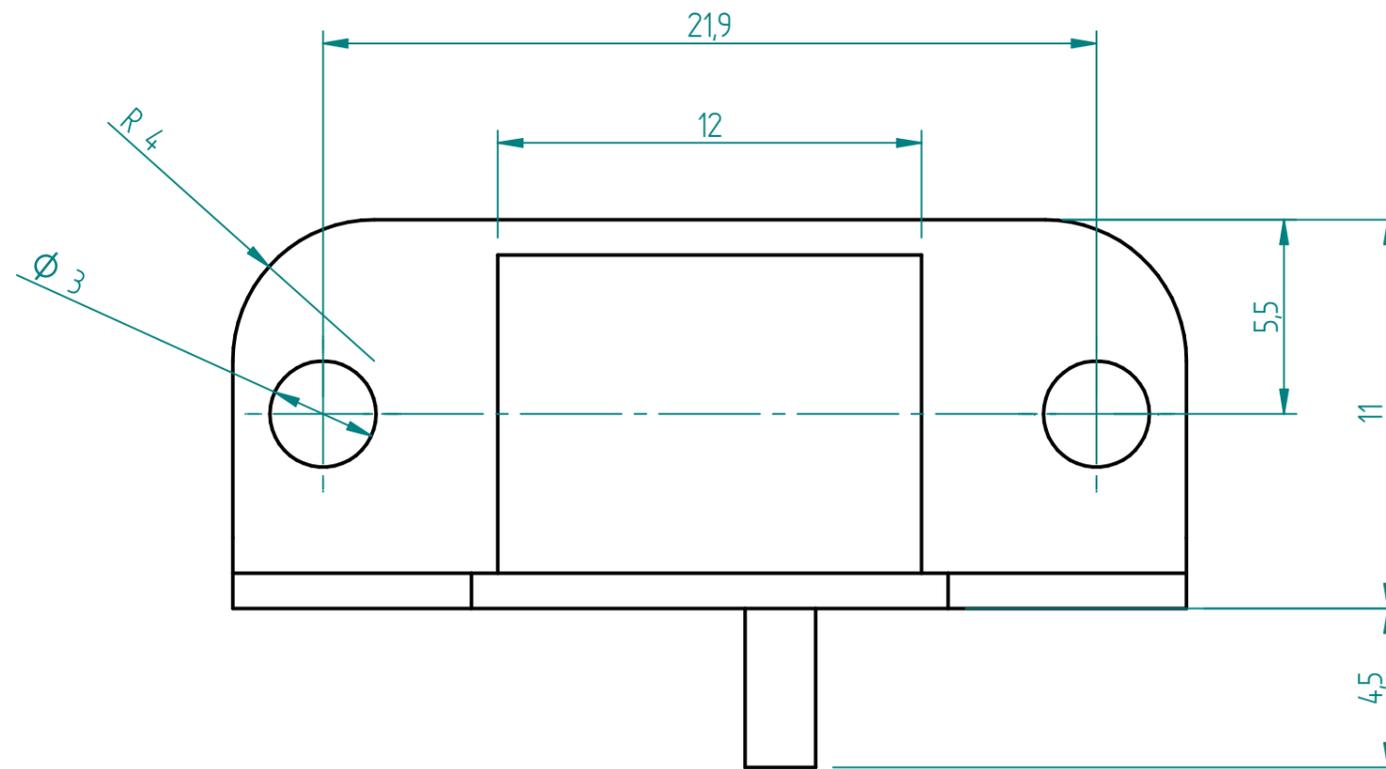
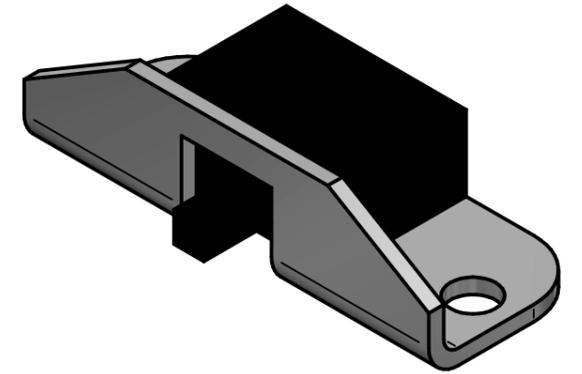
CONTRACTED



#8 & 9 COIL OVER
Scale 2.5:1, Placeholder Part


 Joshua.Hall
 09/05/22
 Unless otherwise specified, all measurements are in Millimetres

Title:		JH RC - Rear Assembly	
Size	Drw No.	Rev	
A3	2	1	
FILE NAME: JH RC - rear drive and parts.dft			
Scale:	Checked:	SHEET 13 OF 15	

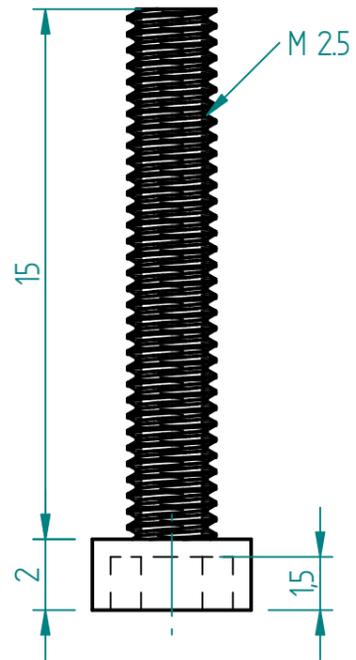


#11 SWITCH
 Scale 5:1, Placeholder Part

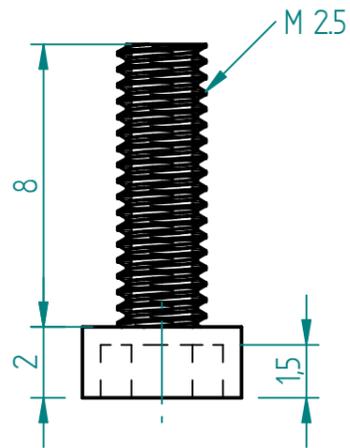

 Joshua.Hall
 09/05/22
 Unless otherwise specified, all measurements are in Millimetres

Title:		JH RC - Rear Assembly	
Size A3	Drw No. 2	Rev 1	
FILE NAME: JH RC - rear drive and parts.dft			
Scale:	Checked:	SHEET 14 OF 15	

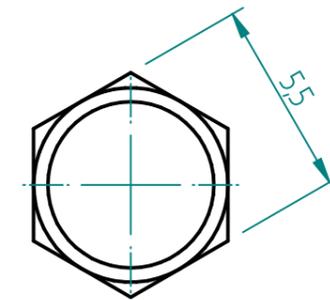
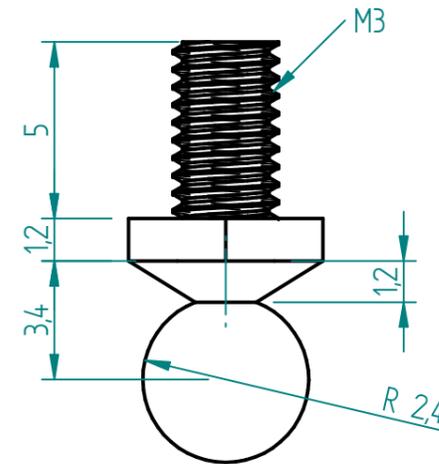
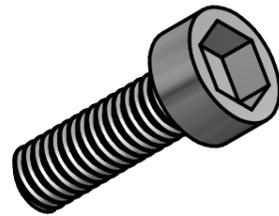
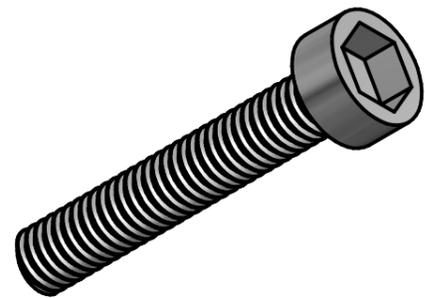
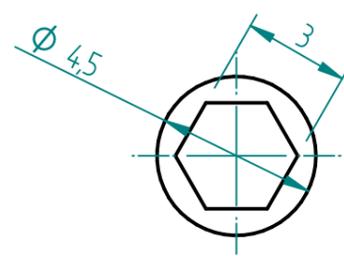
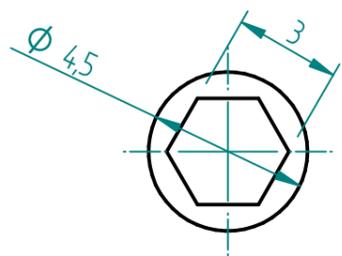
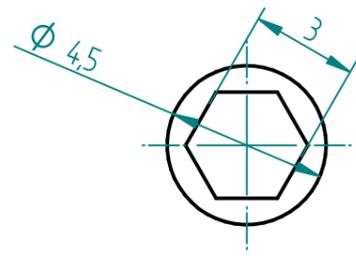
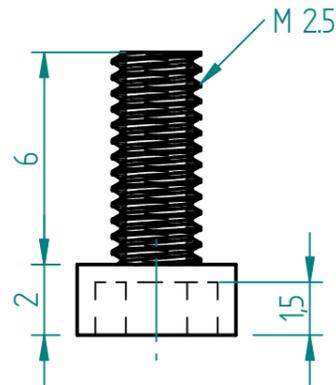
#12



#13



#14



#7 COIL OVER BALL SCREW

Scale 5:1, Placeholder Part

M2.5 HEX 3 SCREWS

Scale 5:1, Placeholder Parts

 Joshua.Hall 09/05/22	Title: JH RC - Rear Assembly	
	Size: A3	Drw No. 2
FILE NAME: JH RC - rear drive and parts.dft		
Scale:	Checked:	SHEET 15 OF 15

Unless otherwise specified, all measurements are in Millimetres