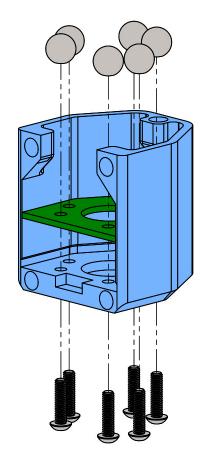
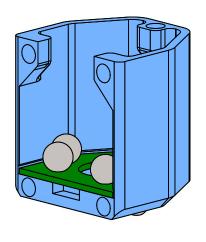


XYZ Touch Probe			
(a) (b)	Created by:	last edited:	
ВУ	Joshua Vasquez	12/27/2022	
	SCALE: 1:5	SHEET 1 OF 11	

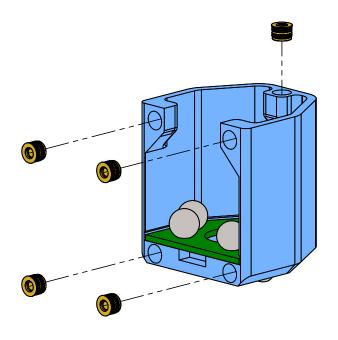


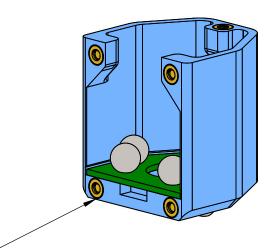


DESCRIPTION	QTY.
PCB Assembly	1
Printed Base	1
M3 Buttonhead Screw, 12mm long	6
M3 8mm Threaded Tool Balls	6

Tool Ball Installation			
ക	<b>(i)</b>	Created by:	last edited:
	BY	Joshua Vasquez	12/27/2022
		SCALE: 1:5	SHEET 2 OF 11

Install the following inserts using the Plate Press technique.



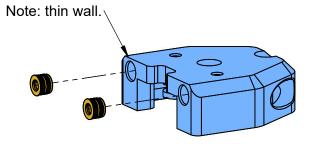


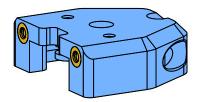
Installing inserts near thin walls of the part can cause the plastic to bulge. This can be prevented by gently pushing the sides of the part against a cool metal surface while the insert is still cooling.

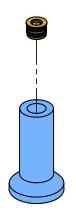
DESCRIPTION	QTY.
M3 Tapered Heat Set Insert	5

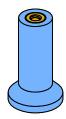
Insert Installation Pt 1			
CC O		Created by: Joshua Vasquez	last edited: 12/27/2022
		SCALE: 1:5	SHEET 3 OF 11

Install the following inserts using the Plate Press technique.







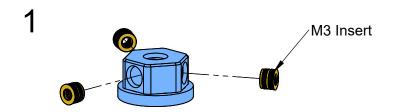


**Exploded View** 

Assembled View

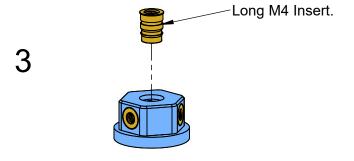
Insert Installation Pt 2			
66	<b>(1)</b>	Created by:	last edited:
	BY	Joshua Vasquez	12/27/2022
		SCALE: 1:5	SHEET 4 OF 11

Note: It is critical that these inserts cool against a flat metal surface or the coupling probe tip will not point straight down.



2





4

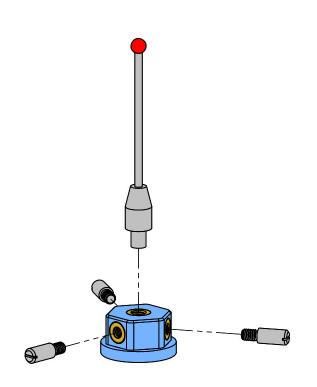


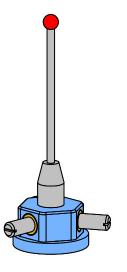
Exploded View

DESCRIPTION	QTY.
Printed Couplilng Junction	1
M3 Tapered Heat Set Insert	3
M4 Tapered Long Heat Set Insert	1

Assembled View

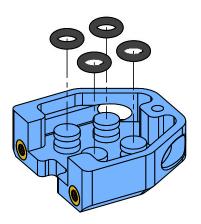
Insert Installation Pt 3			
© BY	Created by: Joshua Vasquez	last edited: 12/27/2022	
	SCALE: 1:1	SHEET 5 OF 11	

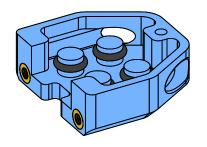




DESCRIPTION	QTY.
Coupling Junction with Inserts	1
Probe Tip	1
Headless Shoulder Screws	3

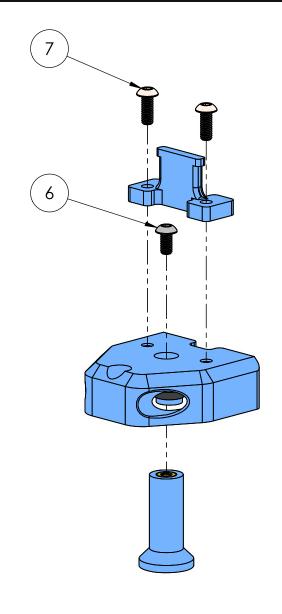
Probe Assembly			
© BY	Created by: Joshua Vasquez	last edited: 12/27/2022	
	SCALE: 1:1	SHEET 6 OF 11	



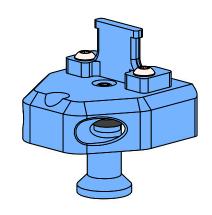


DESCRIPTION	QTY.
Lid with Inserts	1
5x9x2 O-Ring	4

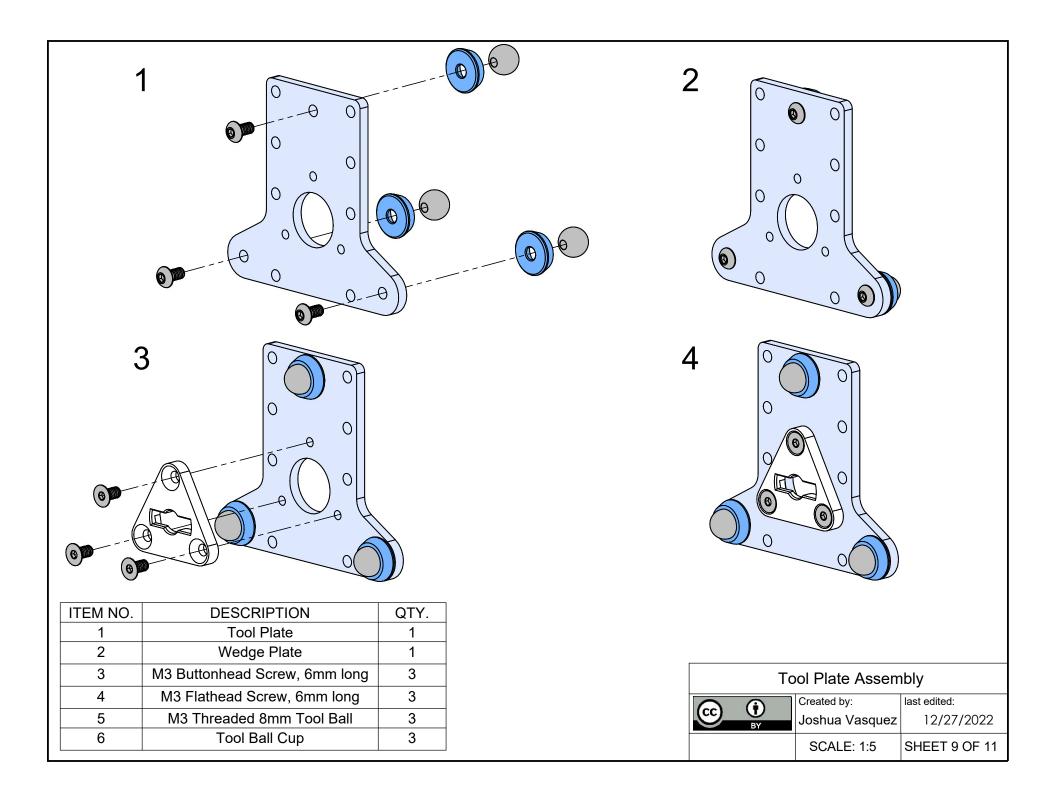
ORing Installation			
	<b>(1)</b>	Created by:	last edited:
	BY	Joshua Vasquez	12/27/2022
		SCALE: 1:5	SHEET 7 OF 11

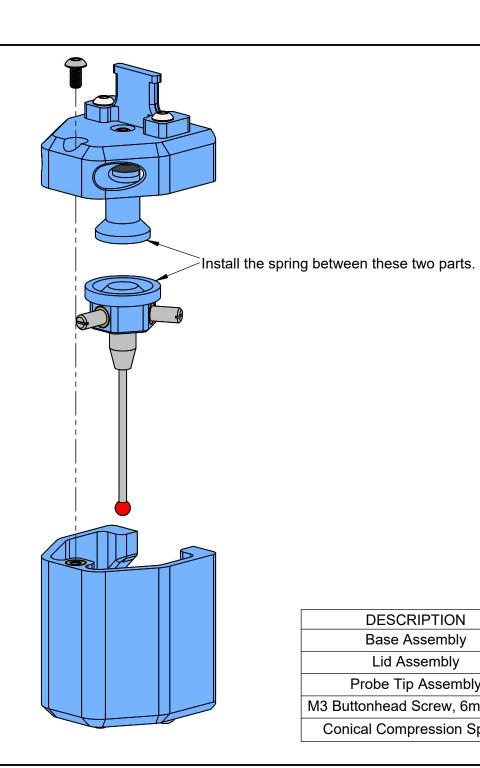


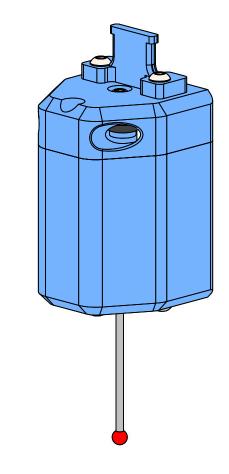
ITEM NO.	DESCRIPTION	QTY.
3	Lid with ORings	1
4	Stud Assembly	1
5	Wire Relief Tab	1
6	M3 Buttonhead Screw, 6mm long	1
7	M3 Buttonhead Screw, 8mm long	2



Lid Assembly			
	Created by:	last edited:	
BY	Joshua Vasquez	12/27/2022	
	SCALE: 1:5	SHEET 8 OF 11	

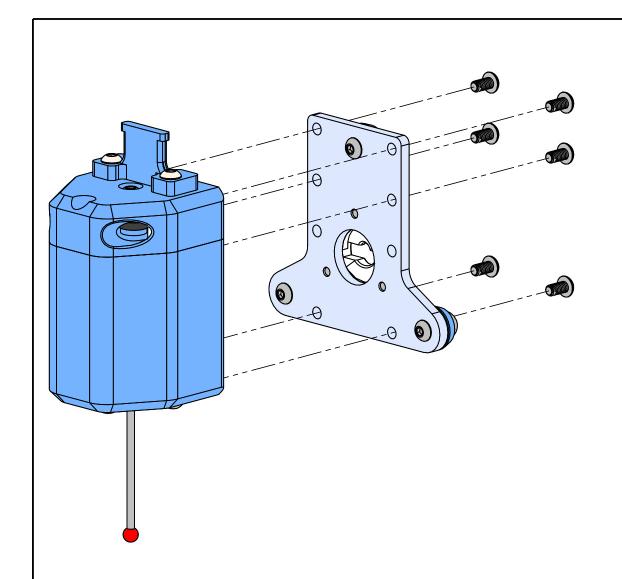


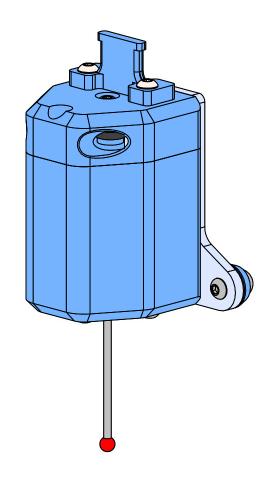




DESCRIPTION	QTY.
Base Assembly	1
Lid Assembly	1
Probe Tip Assembly	1
M3 Buttonhead Screw, 6mm long	1
Conical Compression Spring	1

Housing Assembly				
<u></u>	<u> </u>	Created by:	last edited:	
(cc)_	ВҮ	Joshua Vasquez	12/27/2022	
		SCALE: 1:5	SHEET 10 OF 11	





DESCRIPTION	QTY.
Base Tool Plate Assembly	1
Base Assembly	1
Lid Assembly	1
Probe Tip Assembly	1
M3 Buttonhead Screw, 6mm long	7

Plate Installation			
(6)	<b>(1)</b>	Created by:	last edited:
	BY	Joshua Vasquez	12/27/2022
		SCALE: 1:5	SHEET 11 OF 11