

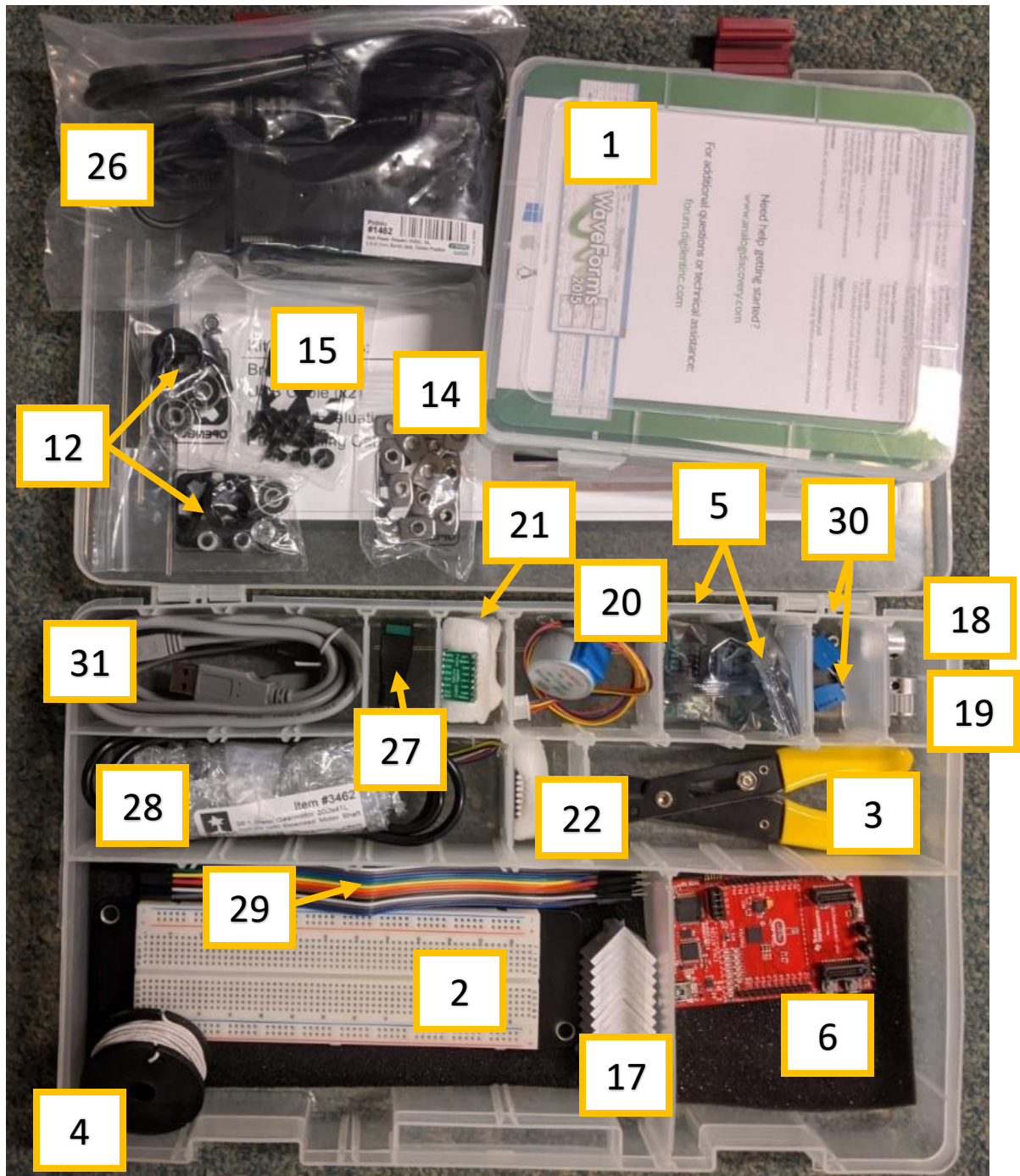
MECH 423 –2020W

Material and Hardware Checklist

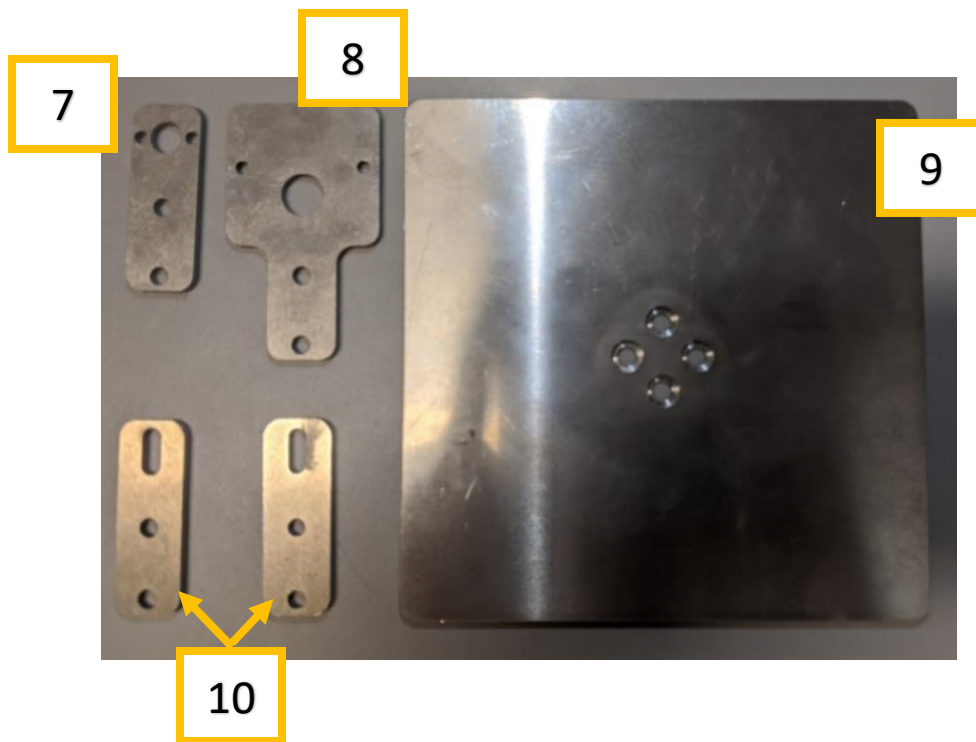
Below are all the components needed to complete all exercises in the course. Please make sure that you receive all of these components before they are used in Lab #3. Contact your TAs if you are missing any component immediately.

Item ID	Item Name	Quantity (Per Kit)	Replacement Cost (CAD/qty)
1	Digilent Analog Discover 2	1	600
2	Breadboard	1	30
3	Wire Cutters	1	40
4	25 ft Solid Core Wire	1	10
5	D-Type Dual Flip-Flop Chip	2	5
6	TI MSP430 Microcontroller	1	70
7	Aluminum part 1	1	5
8	Aluminum part 2	1	5
9	Aluminum part 3	1	5
10	Aluminum part 4	2	5
11	V-Slot Gantry	2	15
12	Pulley	2	20
13	V-slot Aluminum Extrusion	8	15
14	Tee Nut	32	1
15	M5-screw	37	1
16	GT2-Belt	2	30
17	L-bracket	12	5
18	4mm bore gear	1	5
19	5mm bore gear	1	5
20	DC motor	1	50
21	Motor Controller	2	15
22	Encoder	1	15
23	Dc Motor screws	2	1
24	Stepper motor screws	2	1
25	Stepper motor nuts	2	1
26	Wall Power Adapter	1	40
27	Power Connector	1	5
28	Stepper Motor + Controller	1	15
29	Jumper cables	15	10
30	Screw terminal	2	10
31	USB cable	2	20
Total			1545

Component Box



Custom Aluminum Components



Components in Box



Stepper Motor with Controller

