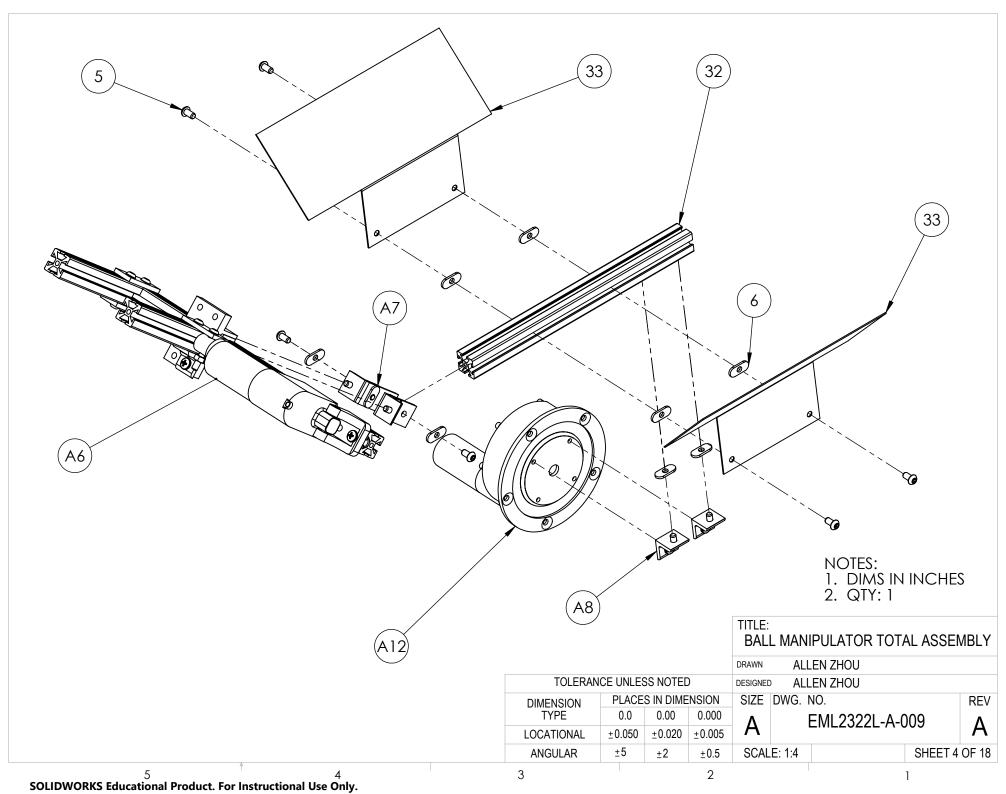
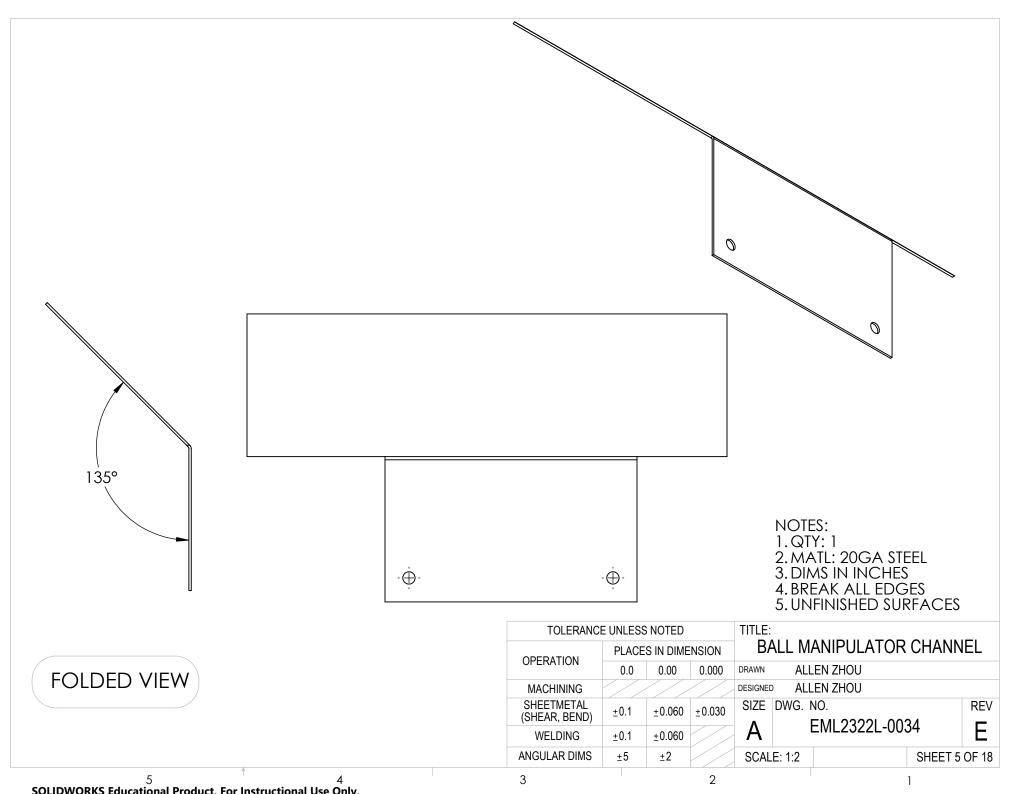


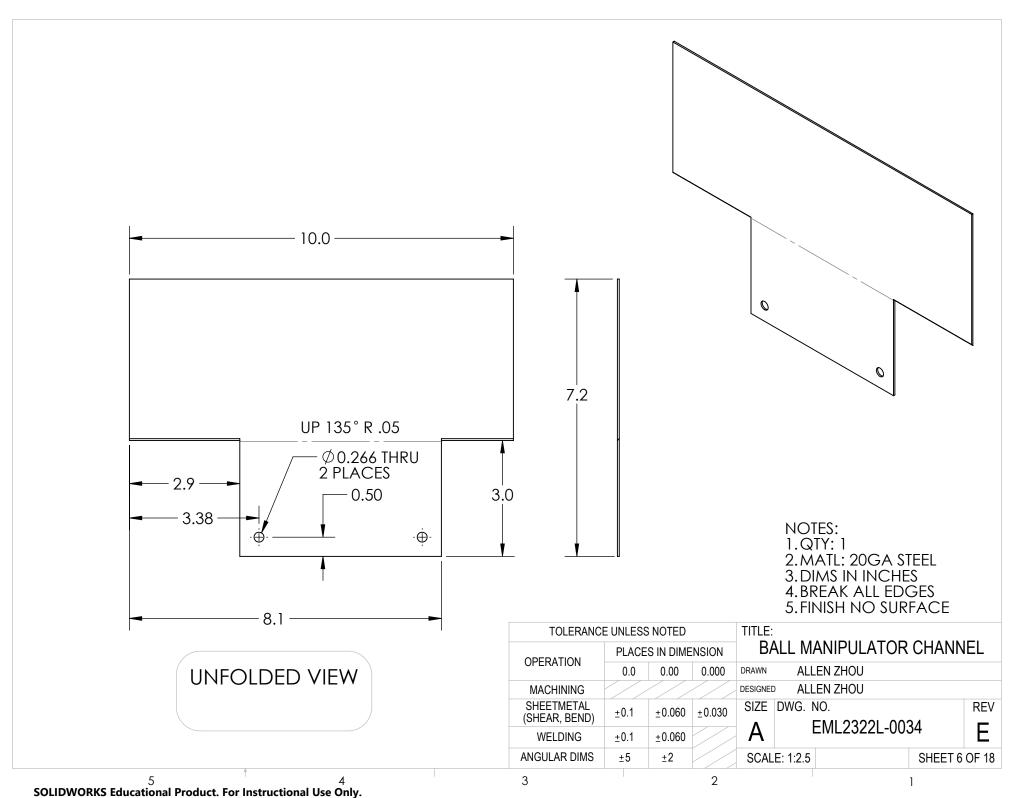
ITEM NO.	PART NUMBER	DESCRIPTION	STRETCH/Q TY.
5	EML2322L-0005	1/4-20 x 1/2 in BUTTON HEAD CAP SCREW	6
6	EML2322L-0006	1/4-20 T-NUT	8
33	EML2322L-0033	BALL MANIPULATOR CHANNEL	2
32	EML2322L-0032	80/20 EXTRUSION - 12 in	1
A6	EML2322L-A-006	CLAW ASSEMBLY	1
A7	EML2322L-A-007	CLAW MOUNT ASSEMBLY	2
A8	EML2322L-A-008	GLOBE MOTOR BRACKET ASSEMBLY	2
A12	EML2322L-A-012	4.5 RPM GLOBE MOTOR ASSEMBLY	1
33	EML2322L-0033	BALL MANIPULATOR CHANNEL MOTOR SIDE	1

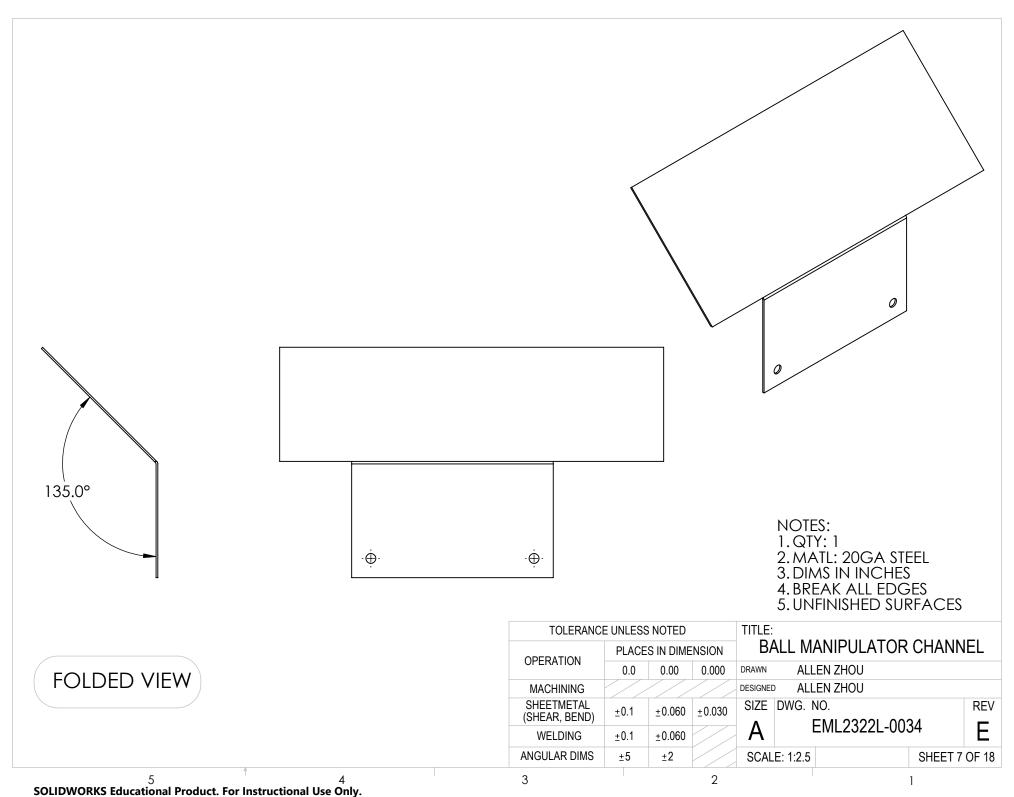
TITLE:
BALL MANIPULATOR TOTAL ASSEMBLY

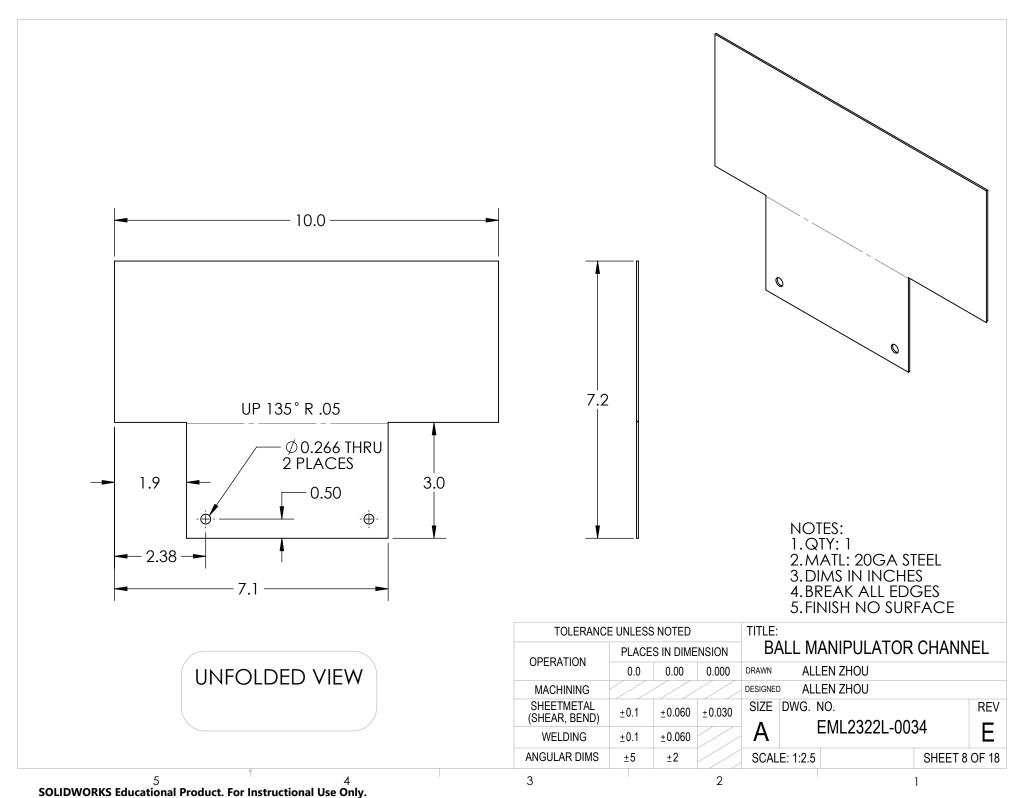
				DRAWN	ALI	LEN ZHOU		
TOLERANCE UNLESS NOTED				DESIGNE	AL	LEN ZHOU		
DIMENSION	PLACE	S IN DIME	NSION	SIZE	DWG.	NO.		REV
TYPE	0.0	0.00	0.000	Λ		EML2322L-A-0	009	Λ
LOCATIONAL	±0.050	±0.020	±0.005	H			,00	A
ANGULAR	±5	±2	±0.5	SCAL	E: 1:8		SHEET 3	OF 18
3			2				1	

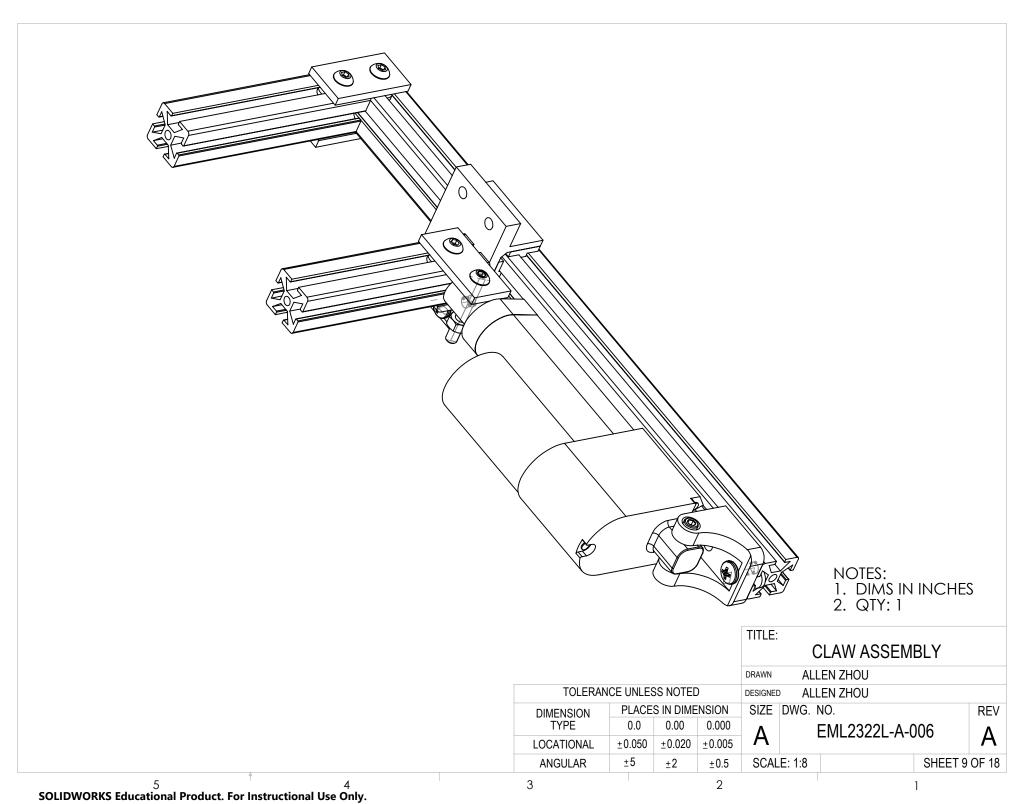


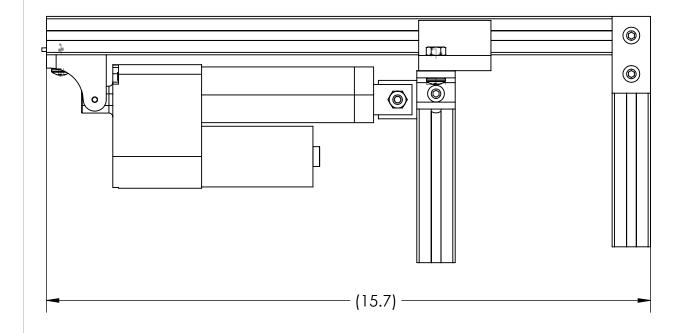


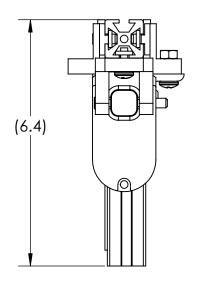












NOTES: 1. QTY: 1 2. DIMS IN INCHES

CLAW ASSEMBLY

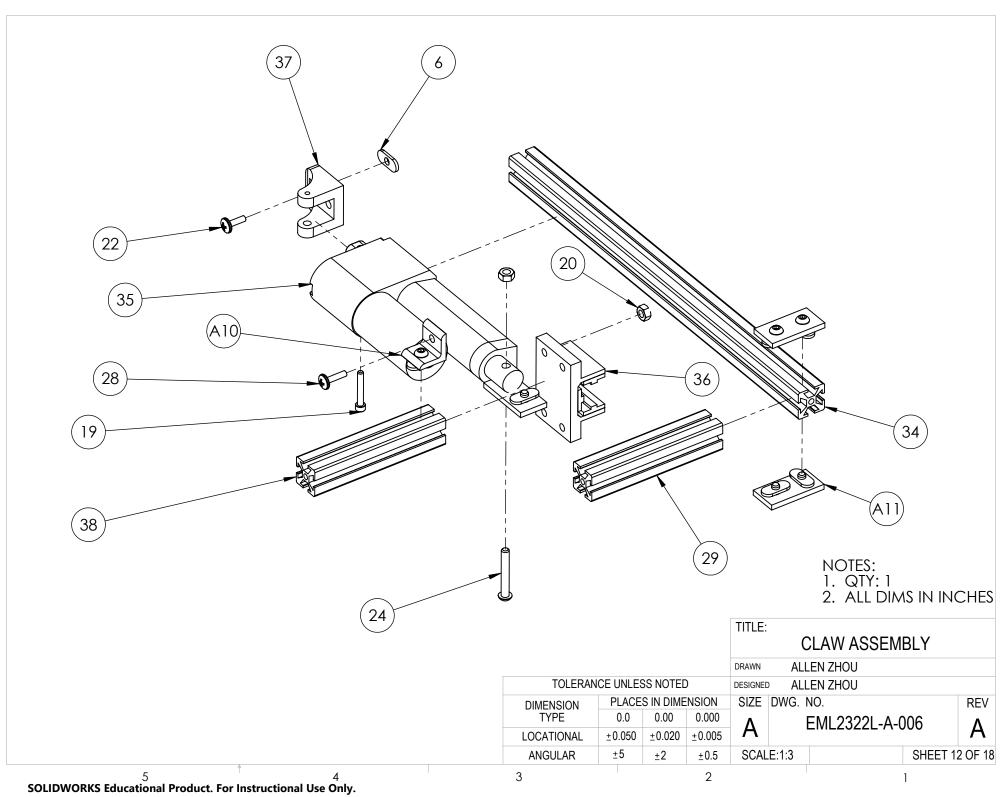
				DRAWN	ALL	EN ZHOU		
TOLERANCE UNLESS NOTED					ALL	EN ZHOU		
DIMENSION	PLACE	S IN DIME	NSION	SIZE	DWG. N	10.		REV
TYPE	0.0	0.00	0.000	Λ	F	EML2322L-A-	006	Λ
LOCATIONAL	±0.050	±0.020	±0.005	А			000	A
ANGULAR	±5	±2	±0.5	SCAL	E: 1:2.5		SHEET 1	0 OF 18

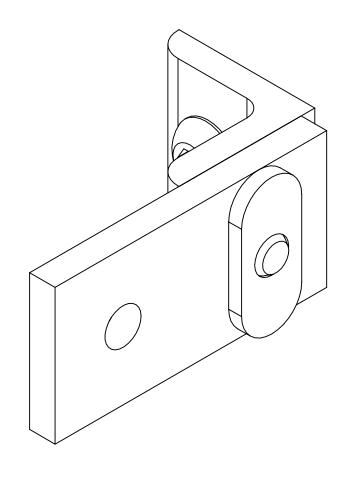
TITLE:

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
6	EML2322L-0006	1/4-20 T-NUT	1
34	EML2322L-0034	80/20 EXTRUSION - 15.7 in	1
36	EML2322L-0036	80/20 LINEAR SLIDE	1
37	EML2322L-0037	10-24 LINEAR ACTUATOR MOUNT	1
35	EML2322L-0035	30 IPM SPAL LINEAR ACTUATOR (2in)	1
28	EML2322L-0028	1/4-20 x 3/4 in PAN HEAD SCREW	1
24	EML2322L-0024	1/4-20 x 1.75 in BUTTON HEAD SCREW	1
22	EML2322L-0022	1/4-20 x 5/8 in PAN HEAD SCREW	1
20	EML2322L-0020	1/4-20 in HEX NUT	2
19	EML2322L-0019	10-24 x 1.25 in SOCKET HEAD SCREW	1
38	EML2322L-0038	80-20 EXTRUSION - 4.5 in	1
A10	EML2322L-A-010	90-DEGREE BRACKET ASSEMBLY	1
A11	EML2322L-A-011	STRAIGHT BRACKET ASSEMBLY	1
29	EML2322L-0029	80-20 EXTRUSION - 5.0 in	1
A11	EML2322L-A-011	STRAIGHT BRACKET ASSEMBLY	2

NOTES: 1. QTY: 1 2. ALL DIMS IN INCHES

					TITLE:		CLAW ASSEM	IBLY	
					DRAWN	ALI	EN ZHOU		
TOLERANCE UNLESS NOTED					DESIGNE	ALI	LEN ZHOU		
	DIMENSION	PLACE	S IN DIME	NSION	SIZE	DWG.	NO.		REV
	TYPE	0.0	0.00	0.000	Λ		EML2322L-A-	006	Λ
	LOCATIONAL	±0.050	±0.020	±0.005	\vdash				A
	ANGULAR	±5	±2	±0.5	SCAL	E: 1:8		SHEET 1	1 OF 18
	3			2				1	•





NOTES: 1. QTY: 2 2. DIMS IN INCHES

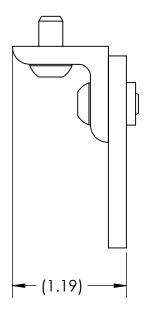
CLAW MOUNT

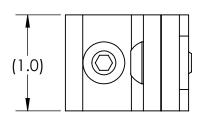
				DRAWN	ALL	EN ZHOU		
TOLERANCE UNLESS NOTED				DESIGNED	ALL	EN ZHOU		
DIMENSION	PLACE	S IN DIME	NSION	SIZE	DWG. I	VO.		REV
TYPE	0.0	0.00	0.000	Λ		EML2322L-A-(1 07	Λ
LOCATIONAL	±0.050	±0.020	±0.005	H			301	A
ANGULAR	±5	±2	±0.5	SCAL	E: 1:1		SHEET 1	3 OF 18

TITLE:

5 SOLIDWORKS Educational Product. For Instructional Use Only.

3





NOTES: 1. QTY: 2 2. DIMS IN INCHES

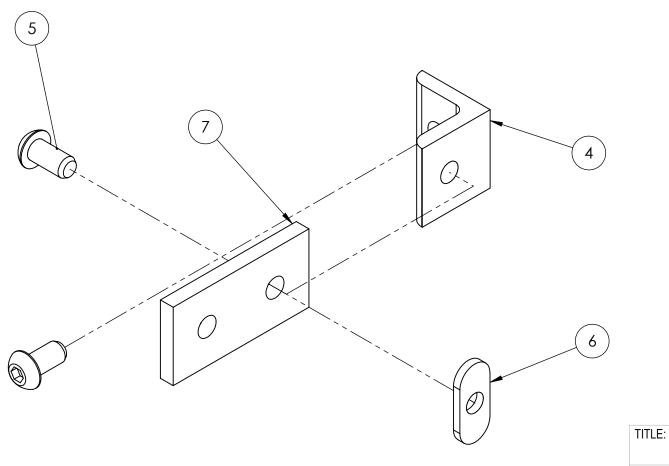
						CLAW MOUN	١T	
				DRAWN	ALL	EN ZHOU		
TOLERANCE UNLESS NOTED					ALL	EN ZHOU		
DIMENSION	PLACE	S IN DIME	NSION	SIZE	DWG. N	10 .		REV
TYPE	0.0	0.00	0.000	Λ	F	EML2322L-A-0	07	Λ
LOCATIONAL	±0.050	±0.020	±0.005	A			,01	A
ANGULAR	±5	±2	±0.5	SCAL	E: 1:1		SHEET 14	4 OF 18

TITLE:

5 SOLIDWORKS Educational Product. For Instructional Use Only.

3

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
4	EML2322L-0004	80/20 90 DEG ANGLE BRACKET	1
5	EML2322L-0005	1/4-20 x 1/2 in BUTTON HEAD CAP SCREW	2
6	EML2322L-0006	1/4-20 T-NUT	1
7	EML2322L-0007	80/20 STRAIGHT BRACKET	1



						CLAW MO	יוטי	N۱	
				DRAWN	ALL	EN ZHOU			
TOLERANCE UNLESS NOTED				DESIGNED	ALL	EN ZHOU			
ENSION	PLACE	S IN DIME	NSION	SIZE	DWG. I	NO.			REV
TYPE	0.0	0.00	0.000	Λ		EML2322L-A-007		Λ	
ATIONAL	±0.050	±0.020	±0.005	H				,01	A
GULAR	±5	<u>+</u> 2	±0.5	SCAL	E: 1:4			SHEET 15	5 OF 18

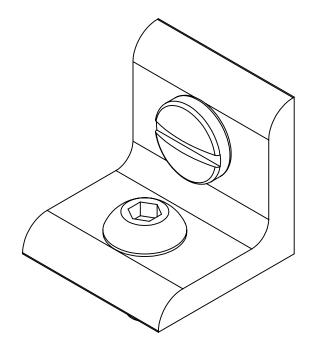
5 SOLIDWORKS Educational Product. For Instructional Use Only.

DIMENSION TYPE

LOCATIONAL

ANGULAR

3

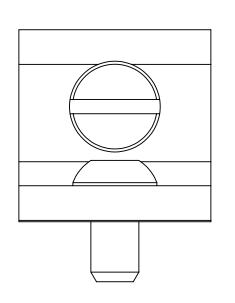


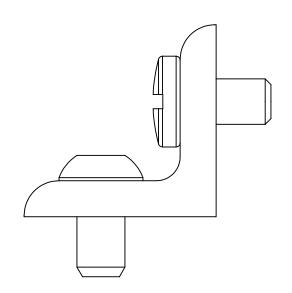
TITLE:
GLOBE MOTOR BRACKET ASSEMBLY

				DRAWN	ALL	LEN ZHOU		
TOLERANCE UNLESS NOTED				DESIGNE	ALL	EN ZHOU		
DIMENSION	PLACE	S IN DIME	NSION	SIZE	DWG. I	NO.		REV
TYPE	0.0	0.00	0.000	Λ		EML2322L-A-0	008	Λ
LOCATIONAL	±0.050	±0.020	±0.005	A	'		,,,,	A
ANGULAR	±5	±2	±0.5	SCAL	E: 1:2		SHEET 1	6 OF 18

5 SOLIDWORKS Educational Product. For Instructional Use Only.

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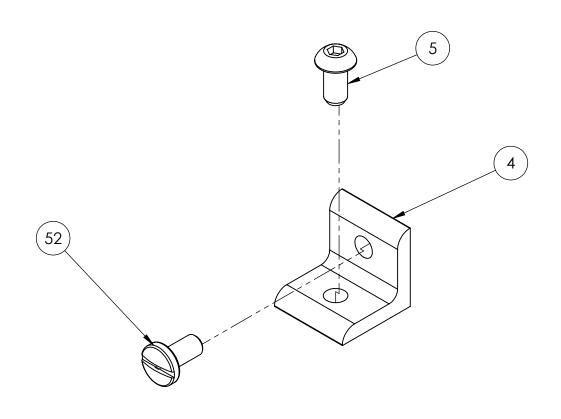


NOTES: 1. QTY: 2 2. DIMS IN INCHES

TITLE: GLO	BE MOTOR BRACKET ASSEMBLY
DRAWN	ALLEN ZHOU

TOLERANCE UNLESS NOTED				DESIGNE	ALI	EN ZHOU		
DIMENSION	PLACE	S IN DIME	NSION	SIZE DWG. NO.				REV
TYPE	0.0	0.00	0.000	Λ	EML2322L-A-008			٨
LOCATIONAL	±0.050	±0.020	±0.005	A				A
ANGULAR	±5	±2	±0.5	SCAL	E: 2:1		SHEET 1	7 OF 18

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
4	EML2322L-0004	80/20 90 DEG ANGLE BRACKET	1
5	EML2322L-0005	1/4-20 x 1/2 in BUTTON HEAD CAP SCREW	1
26	EML2322L-0026	M6 x 1 - 12 mm PAN HEAD SCREW FOR GM	1



TITLE:
GLOBE MOTOR BRACKET ASSEMBLY

				DRAWN	ALL	LEN ZHOU			
TOLERANCE UNLESS NOTED				DESIGNED ALLEN ZHOU					
DIMENSION TYPE	PLACE	S IN DIME	NSION	SIZE	DWG. I	NO.		REV	
	0.0	0.00	0.000	Λ	EML2322L-A-008			Λ	
LOCATIONAL	±0.050	±0.020	±0.005	Α				A	
ANGULAR	±5	±2	±0.5	SCAL	E: 1:2		SHEET 1	8 OF 18	