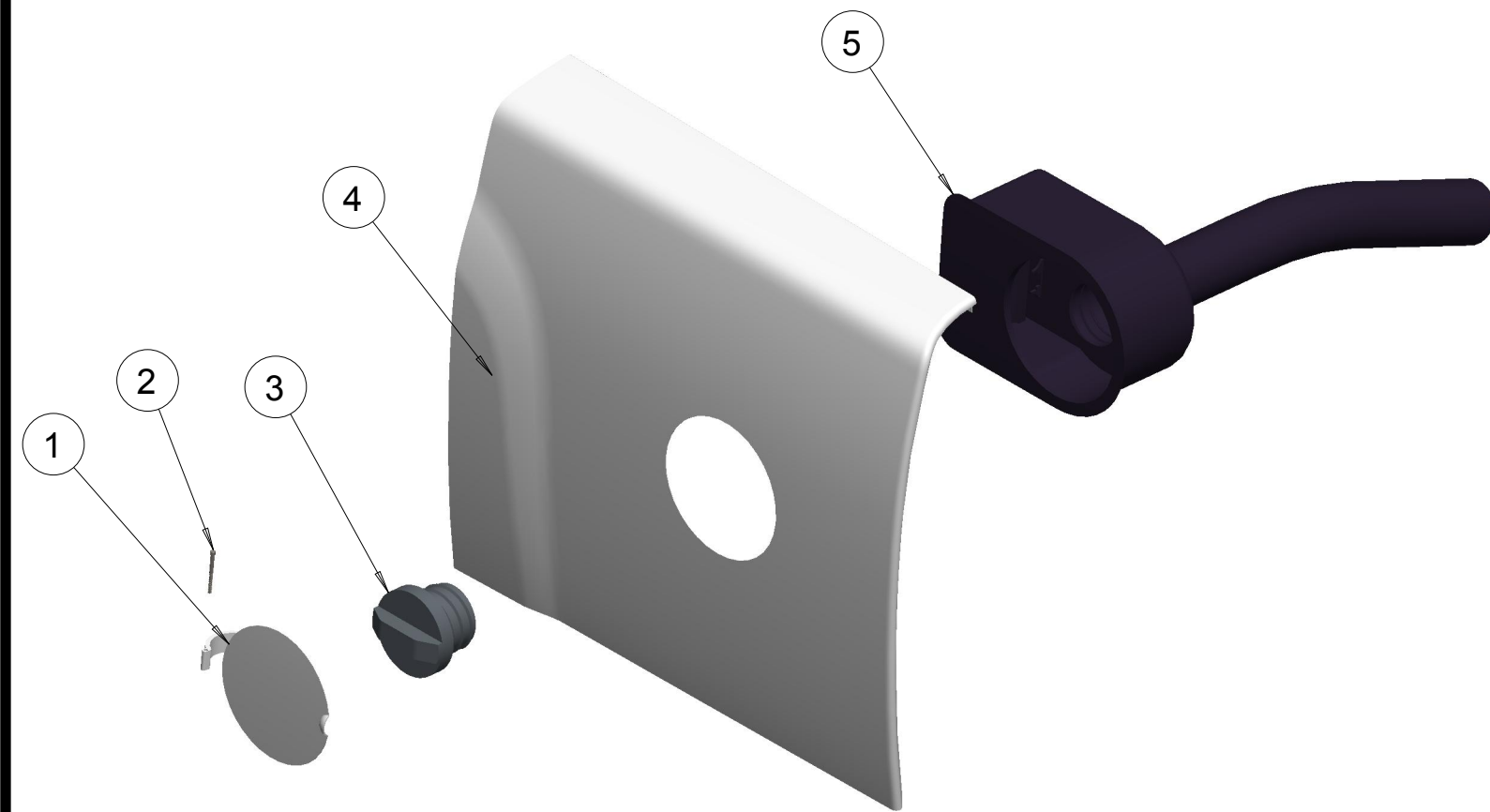
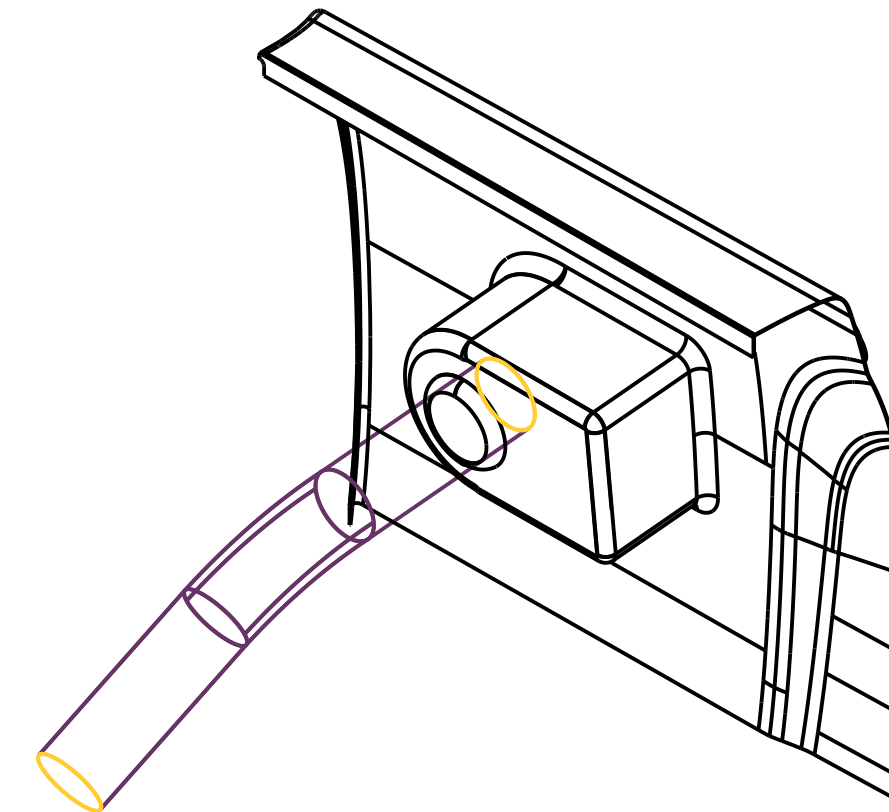


EXPLODED ASSEMBLY



THIS PART IS ASSEMBLED BY PLACING THE HOLE ON THE HINGED DOOR (1) ONTO OF THE THREAD HOLE LOCATED INSIDE THE POCKET (5) NEAR THE LEFT (AS ORIENTATED IN THE EXPLODED ASSEMBLY) SIDE. THE SCREW (2) WILL FASTEN THE HINGED DOOR (3) TO THE POCKET (5) USING THE AFOREMENTIONED THREADED HOLE. THE POCKET (5) WILL THEN BE ATTACHED TO HE BACK OF THE SIDE PANEL (4) WITH THE GAS CAP (3) ABLE TO BE SCREWED INTO THE POECKT (5) CLOSING OFF THE FUEL TUBE.

CONNECTION VIEW



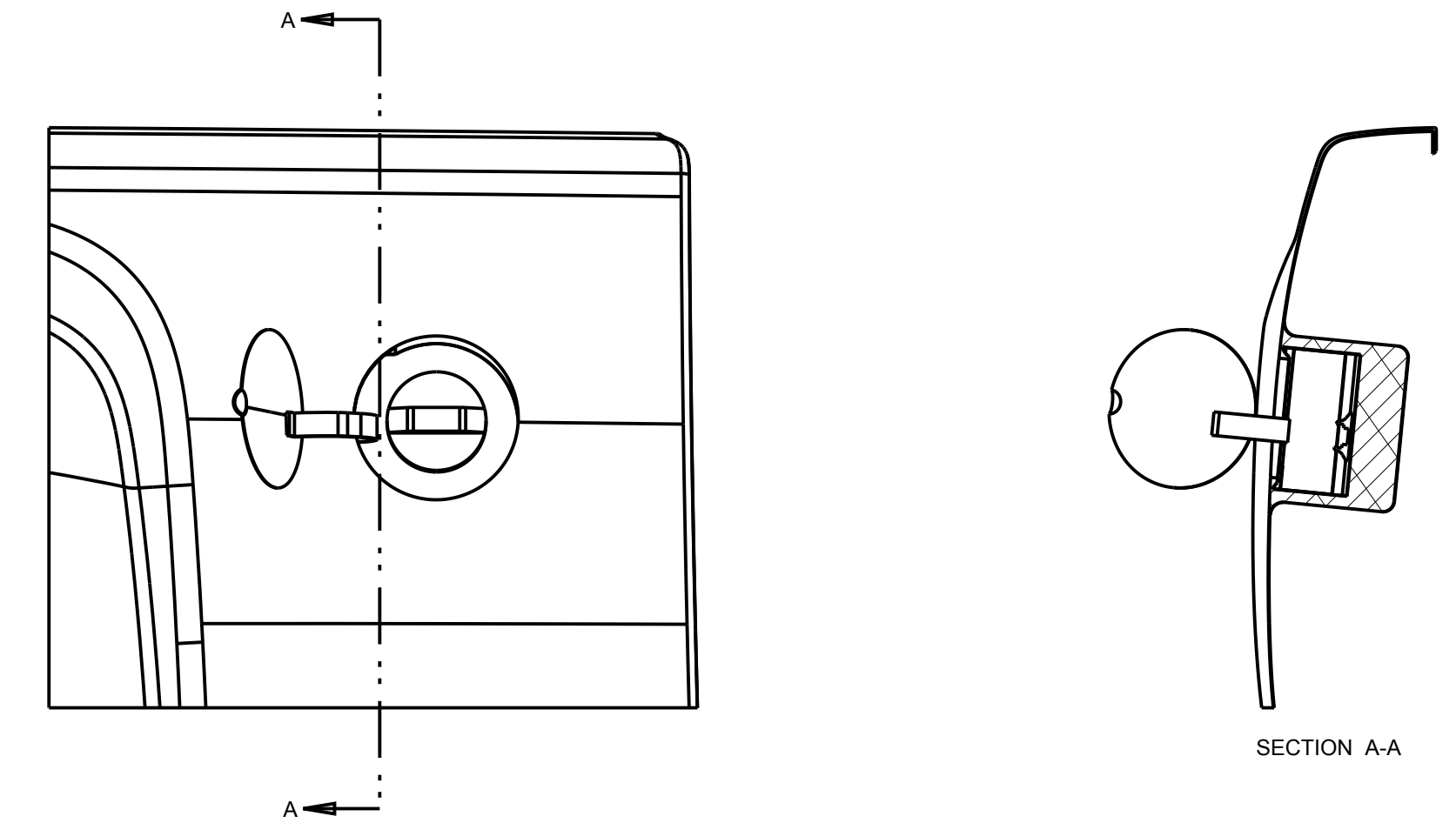
THE POCKET IS SPOTWELDED TO THE BODY PANEL AND THE FUEL TUBE IS HELD INTO THE POCKET WITH THE USE OF ADHESIVE.

FUEL DOOR

METRIC

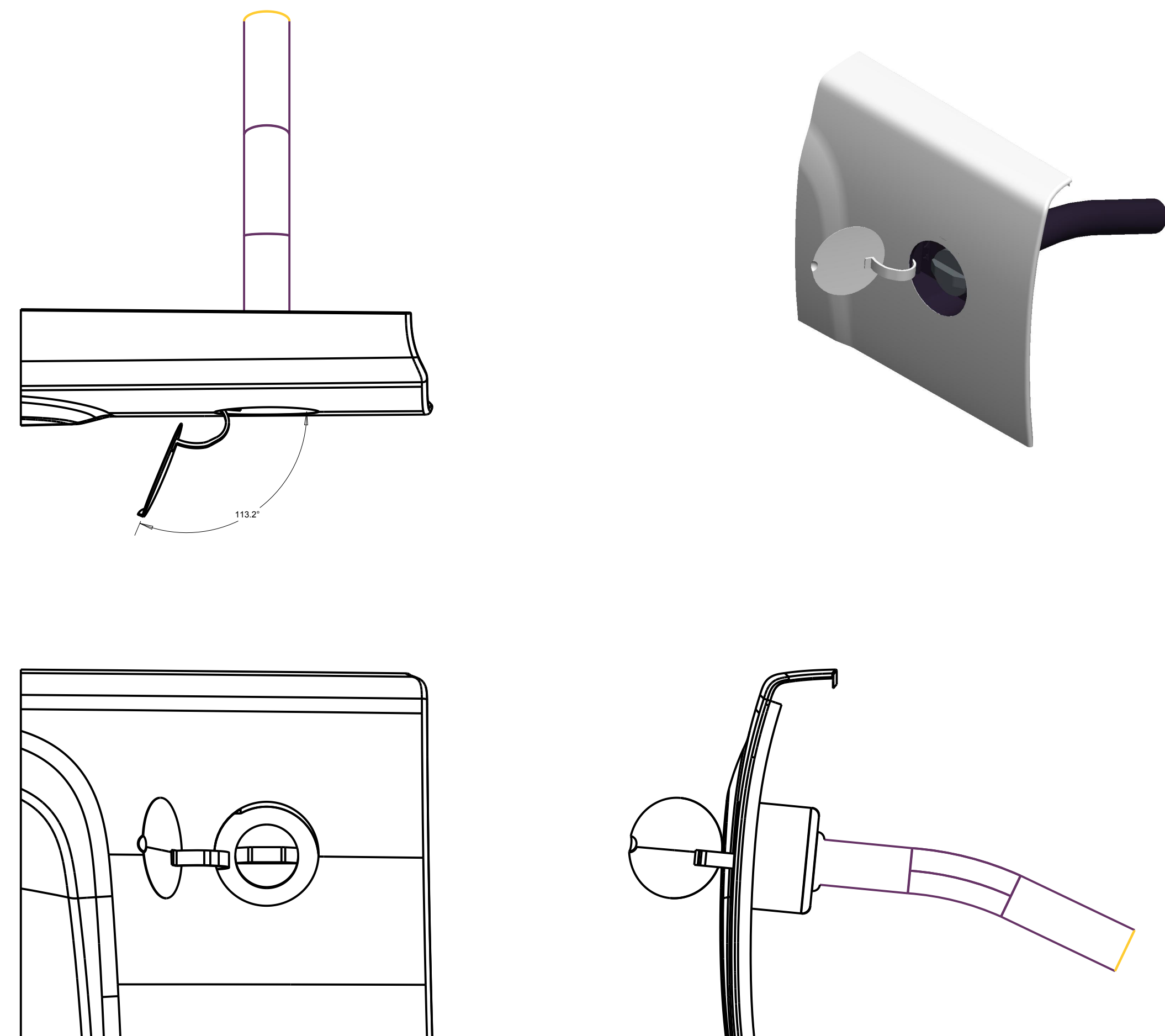
ENGINEERING DESIGN

HINGE SECTION

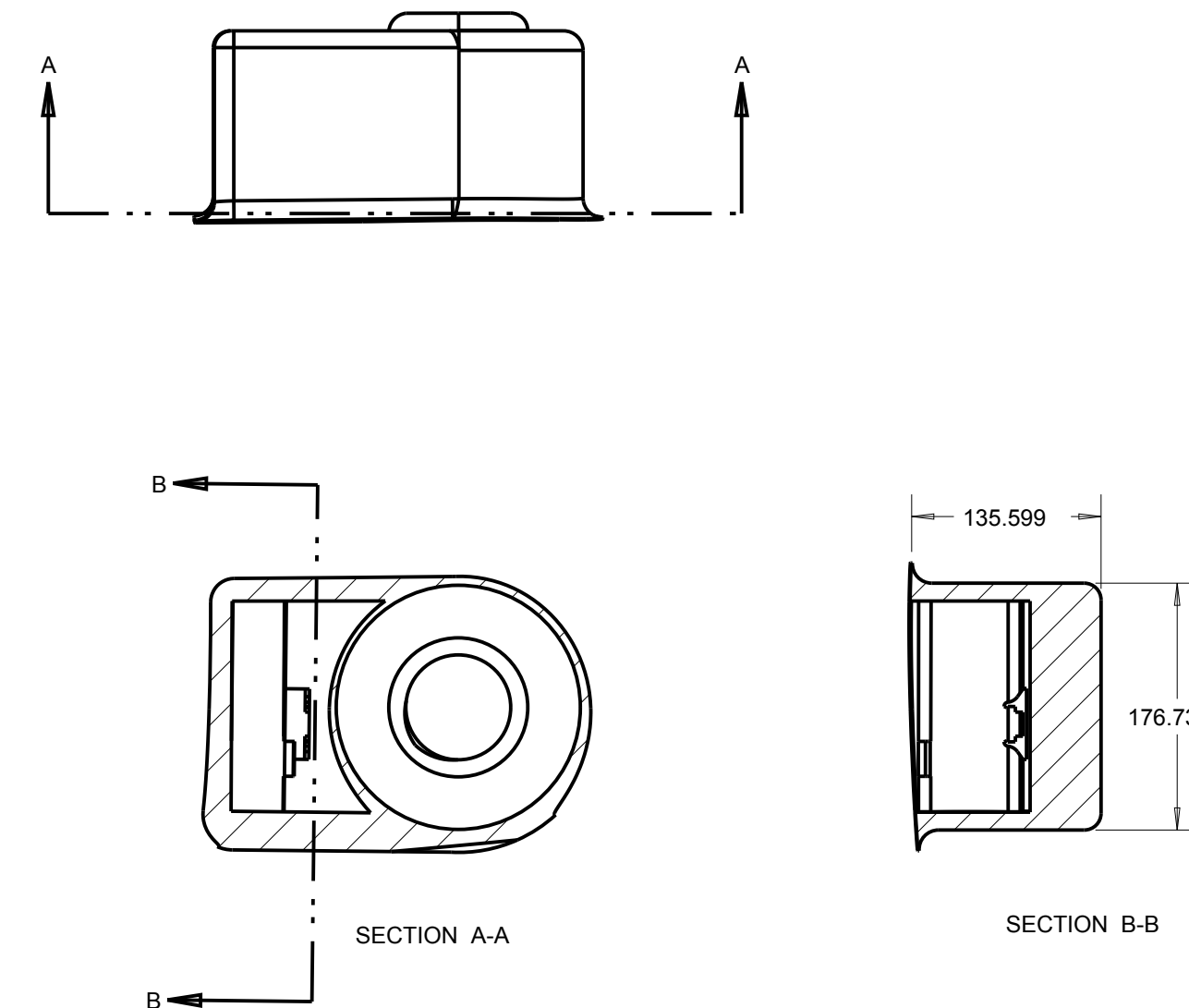


THE FUEL DOOR CAN BE OPENED BY APPLYING FORCE UNDERNEATH THE INDENTATION ON THE DOOR TOWARDS ONE'S SELF. THIS ALLOWS FOR THE DOOR TO BE RELEASED FROM THE LATCH BY SPREADING THE LATCH APART. THE SAME CONCEPT HOLDS THE DOOR CLOSED; BY APPLYING PRESSURE ONTO THE FUEL DOOR AWAY FROM ONE'S SELF THE HINGED DOOR WILL SPREAD THE PRONGS APART ALLOWING THE HINGE TO NESTLE INTO THE LATCH AND HAVINGT THE PRONGS RETRACT LOCKING THE DOOR IN PLACE.

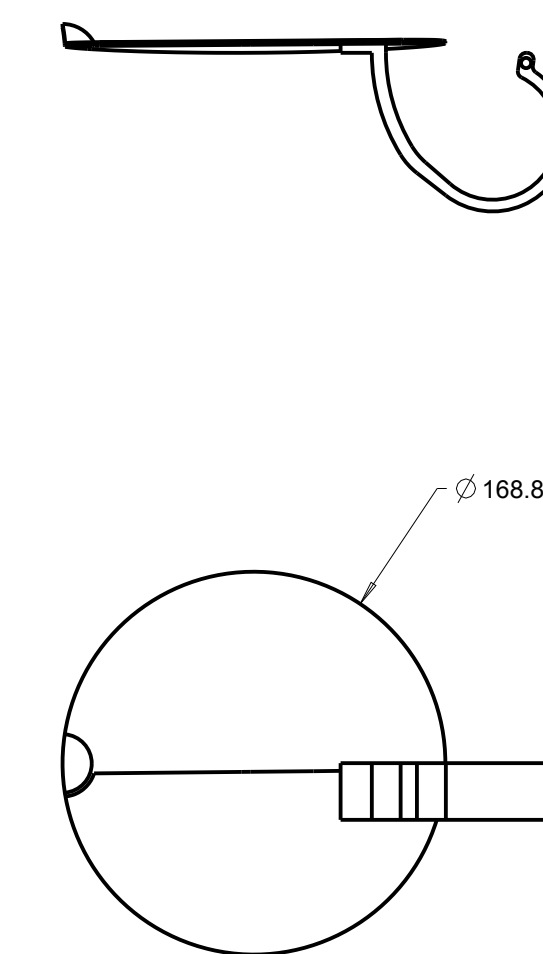
ORTHOGRAPHIC VIEWS



5 DWG: POCKET SCALE: .20

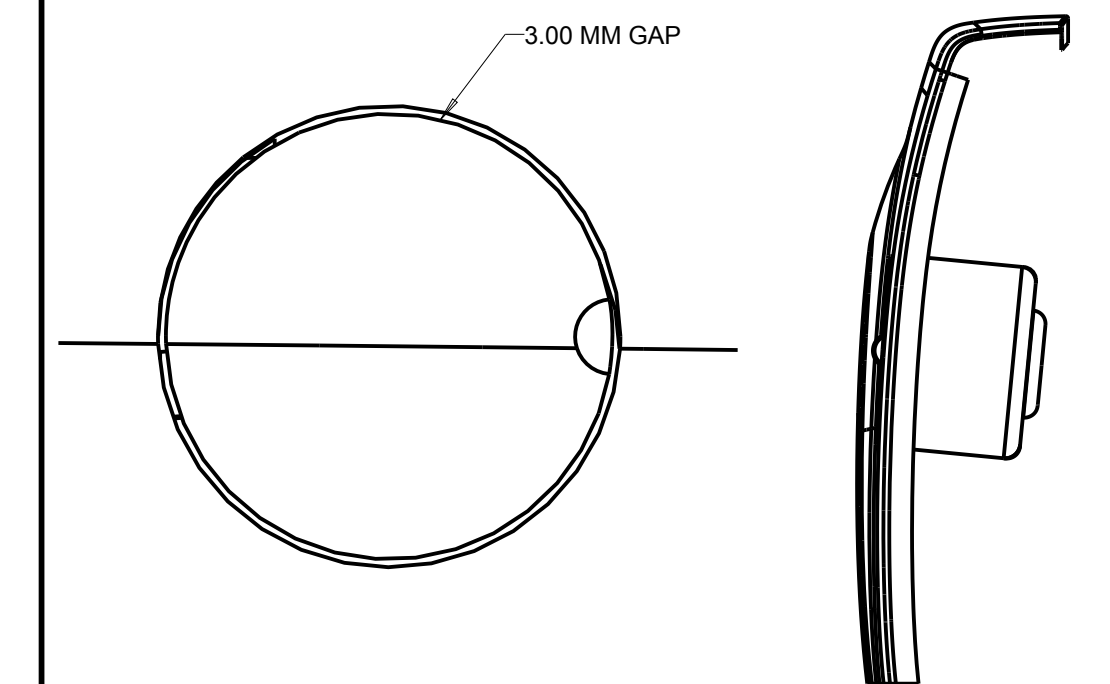


1 DWG: HINGED DOOR SCALE: .30



CLOSED FRONT VIEW

NOTE: DOOR FLUSH WITH BODY PANEL AND BELOW VIEWS NOT THE SAME SCALE



PARTS LIST		
PART #	PART NAME	QTY.
1	HINGED DOOR	1
2	BOLT	1
3	GAS CAP	1
4	SIDE PANEL	1
5	POCKET	1

STUDENT NAME:

NICHOLAS MARTENS

SCHOOL:

BRIGHTON HIGH SCHOOL

GRADE LEVEL: CATEGORY:

12 ENGINEERING DESIGN

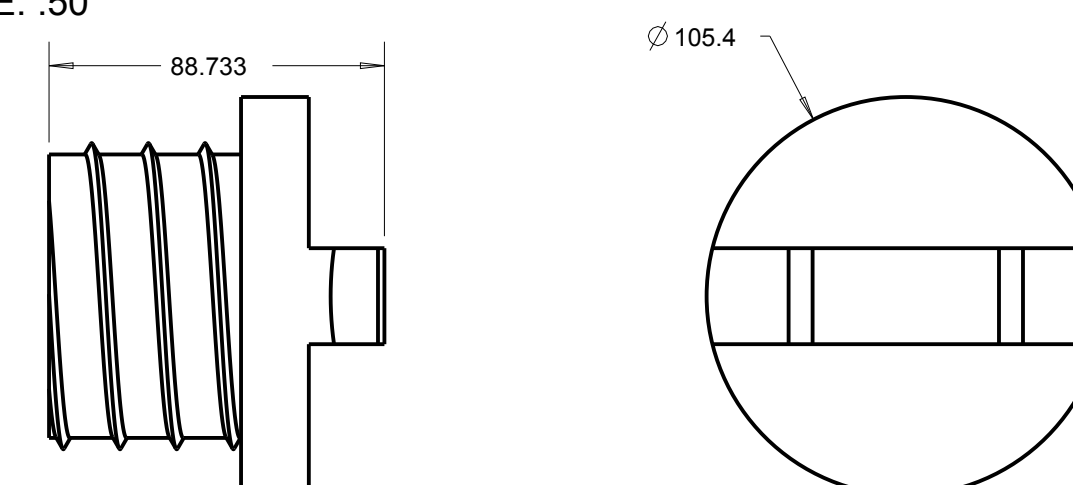
EMAIL ADDRESS:

MARTENSU17@BRIGHTONK12.COM

TEACHER NAME:

MR. JOURDAN

3 DWG: GAS CAP SCALE: .50



2 DWG: BOLT SCALE: 1.50 PITCH: 15.00 MAJOR DIAMETER: 4.40 MINOR DIAMETER: 3.60

