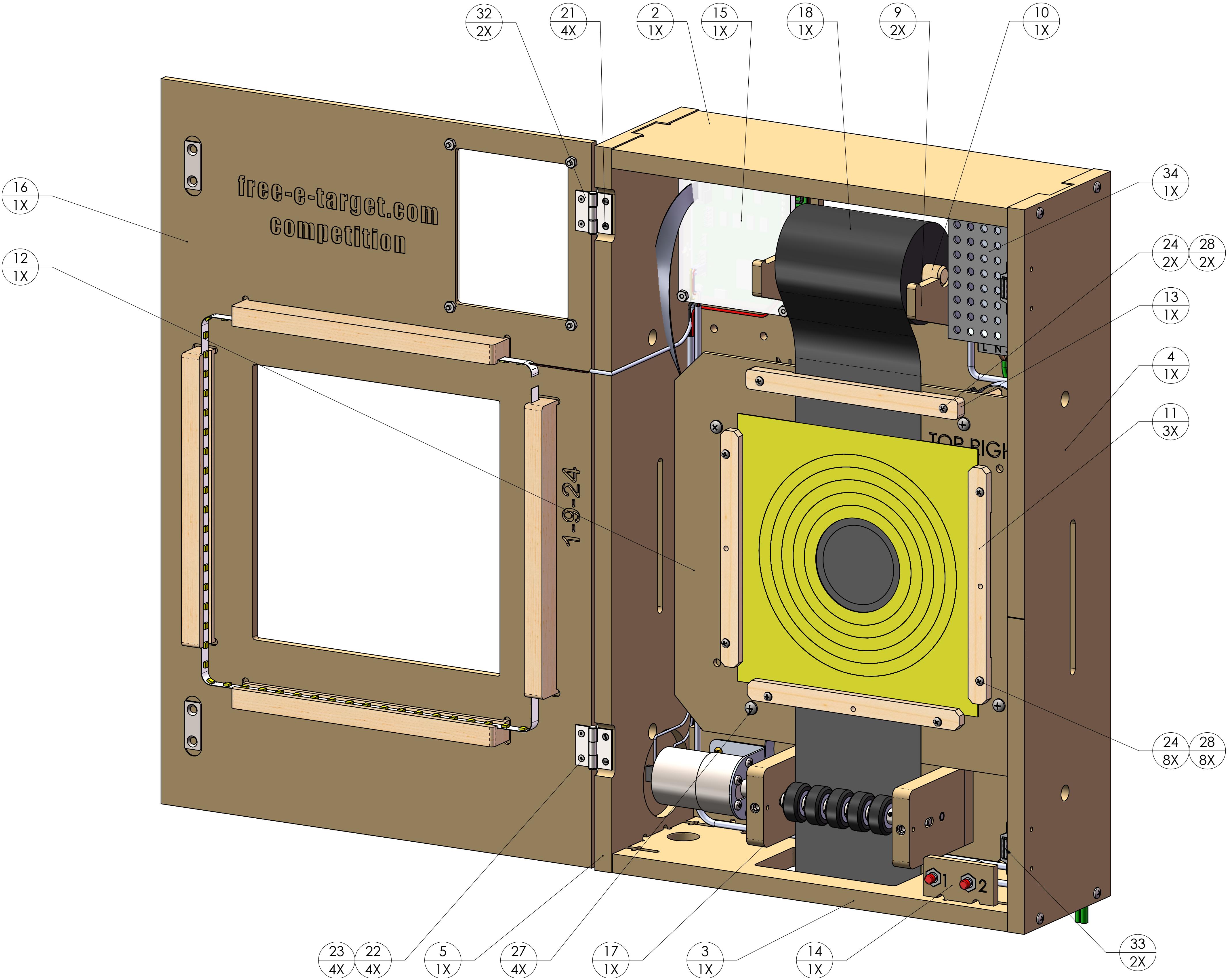


NOTES:

1. TO GAIN A BETTER UNDERSTANDING ON HOW TO ASSEMBLING THE freETarget COMPETITION KIT.
VISIT Arme Vechi on YOUTUBE.com titled (freETarget COMPETITION KIT [EN]).

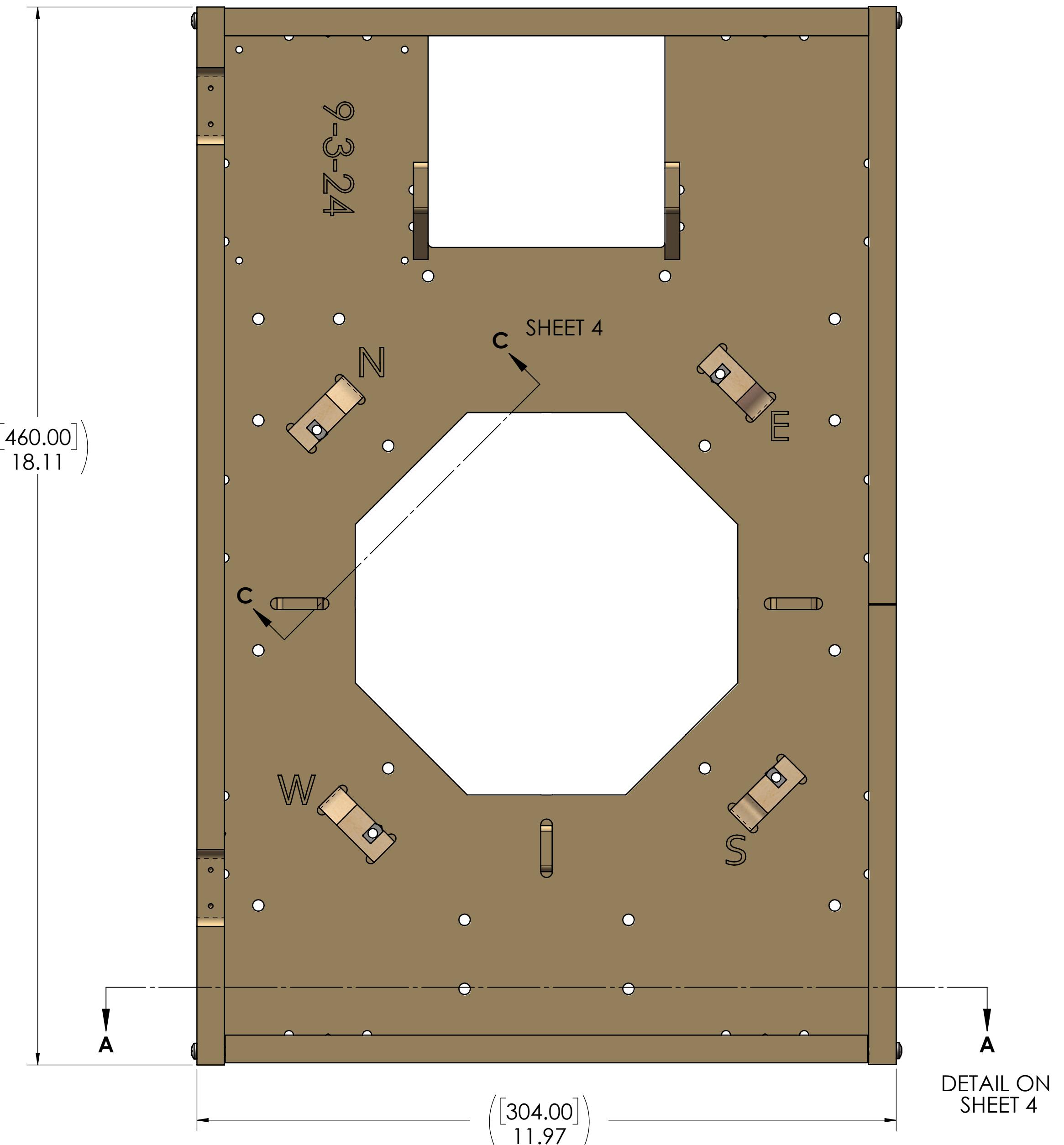
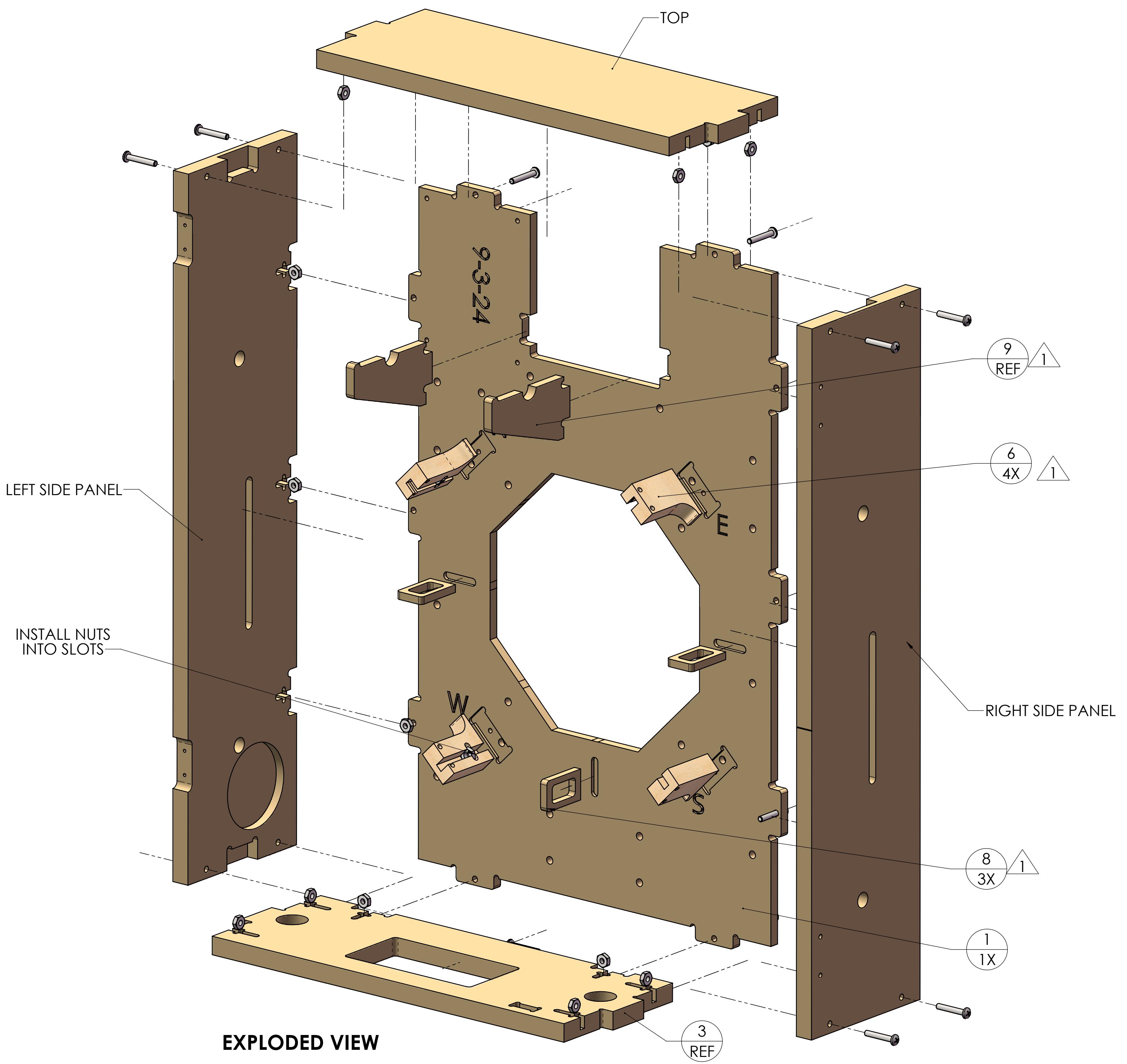


ITEM NO.	QTY.	PART NUMBER	PART DESCRIPTION	MATERIAL	Cost	NOTE NO.
38	1	3000N SKU 8008047	10 METER ISSF TARGET	-	-	-
37	1	-	2 CONDUCTOR WIRE FOR LED	COPPER WIRE	\$2.00	-
36	1	-	120V AC POWER CORD	-	\$ 5.00	-
35	1	-	12V POWER WIRE	-	-	-
34	1	AL12V5AT	12 VOLT POWER SUPPLY 5A 60W	-	12.99	-
33	2	4096N11	Magnetic Latch	Plastic	\$ 3.09	-
32	2	1597A12	HINGE 1" X 1/2"	---	\$2.75	-
31	1	-	SENSOR CABLE ASSEMBLY	freETarget	-	-
30	4	---	No 8-32 HEX NUT	SS 18-8	-	-
29	22	---	No 6-32 HEX NUT	SS 18-8	-	-
28	32	---	No 4-40 HEX NUT	SS 18-8	-	-
27	4	---	NO.8-32 x1.375L PAN HD	SS 18-8	-	-
26	22	---	NO.6-32 x 0.875L PAN HD	SS 18-8	-	-
25	4	---	NO. 4-40 x 1.250 L, PAN HD	SS 18-8	-	-
24	16	---	NO. 4-40 x .75L, PAN HEAD	SS 18-8	-	-
23	4	---	No 2-56 HEX NUT	SS 18-8	-	-
22	4	---	No 2-56 x 0.500 FLAT HEAD 82 DEG	SS 18-8	-	-
21	4	90006A079	#2 X 10mm WOOD SCREW	Steel	-	-
20	4	KY-038	TARGET SENSOR PC BOARD	freETarget	-	-
19	1	CURCUIT	MAIN CURCUIT BOARD ESS	-	230.00	-
18	1	B08842CCBF #157 Paper	WITNESS PAPER ROLL	CONSTRUCTION PAPER	14.99	-
17	1	FET-045	PAPER TRANSPORT ASSY	-	\$ 95.00	-
16	1	FET-022	6mm FRONT PANEL ASSEMBLY	-	-	-
15	1	FET-020	CLEAR PCB COVER	1/4" POLYCARBONATE	\$ 2.50	-
14	1	FET-019	MULTI FUNTION SWITCH ASSEMBLY	-	-	-
13	1	FET-017	WITNESS PAPER TOP GUIDE	Maple	\$.50	-
12	1	FET-016	FACE PLATE	PLYWOOD	\$ 3.00	-
11	3	FET-014	TARGET HOLDER	Maple	\$ 1.00	-
10	1	FET-013	1/2" DOWEL	Pine	\$ 1.00	-
9	2	FET-012	WITNESS PAPER MOUNT	PLYWOOD	\$ 1.00	-
8	3	FET-011	CABLE GUIDE	PLYWOOD	\$ 1.00	-
7	2	FET-010	SENSOR COVER	PVC Rigid	-	-
6	4	FET-009	SENSOR MOUNT	Maple	\$ 1.00	-
5	1	FET-008	LEFT SIDE PANEL	PLYWOOD	\$ 2.25	-
4	1	FET-007	RIGHT SIDE PANEL	PLYWOOD	\$ 2.25	-
3	1	FET-006	BOTTOM PANEL	PLYWOOD	\$ 1.50	-
2	1	FET-005	TOP PANEL	PLYWOOD	\$ 1.50	-
1	1	FET-004	BACK PANEL	PLYWOOD	\$3.00	-
freETarget						
TITLE: COMPETITION TARGET ASSEMBLY						
SIZE DWG. NO. D FET-000 REV						
SCALE: 1:4 7.12 SHEET 1 OF 15						

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES ARE IN INCHES FRACTIONAL : ANGULAR: MACH 1 BEND + TWO PLANE DEFORMAL : THREE PLANE DEFORMAL : INTERFER GEOMETRIC TOLERANCING PER: FET-000 freETarget MATERIAL - NEXT ASSY USED ON FINISH APPLICATION	NAME J. SNAPP DATE JAN 2025 DRAWN CHECKED ENG APPR. MFG APPR. QA. COMMENTS:
---	---

NOTES:

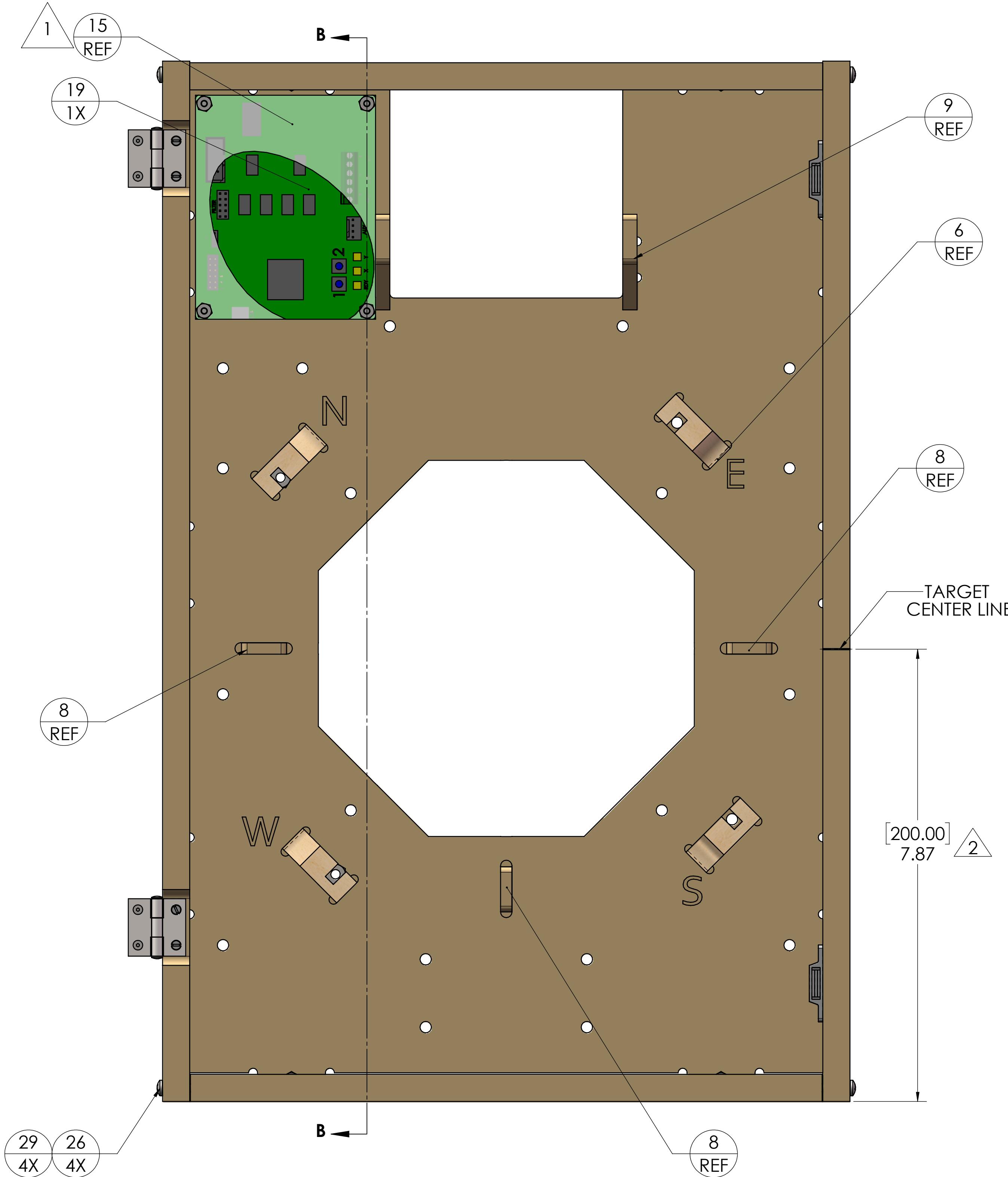
1 USE AN ANGLE SQUARE AGAINST EACH ITEM AS YOU GLUE ITEMS TO THE BACK PANEL



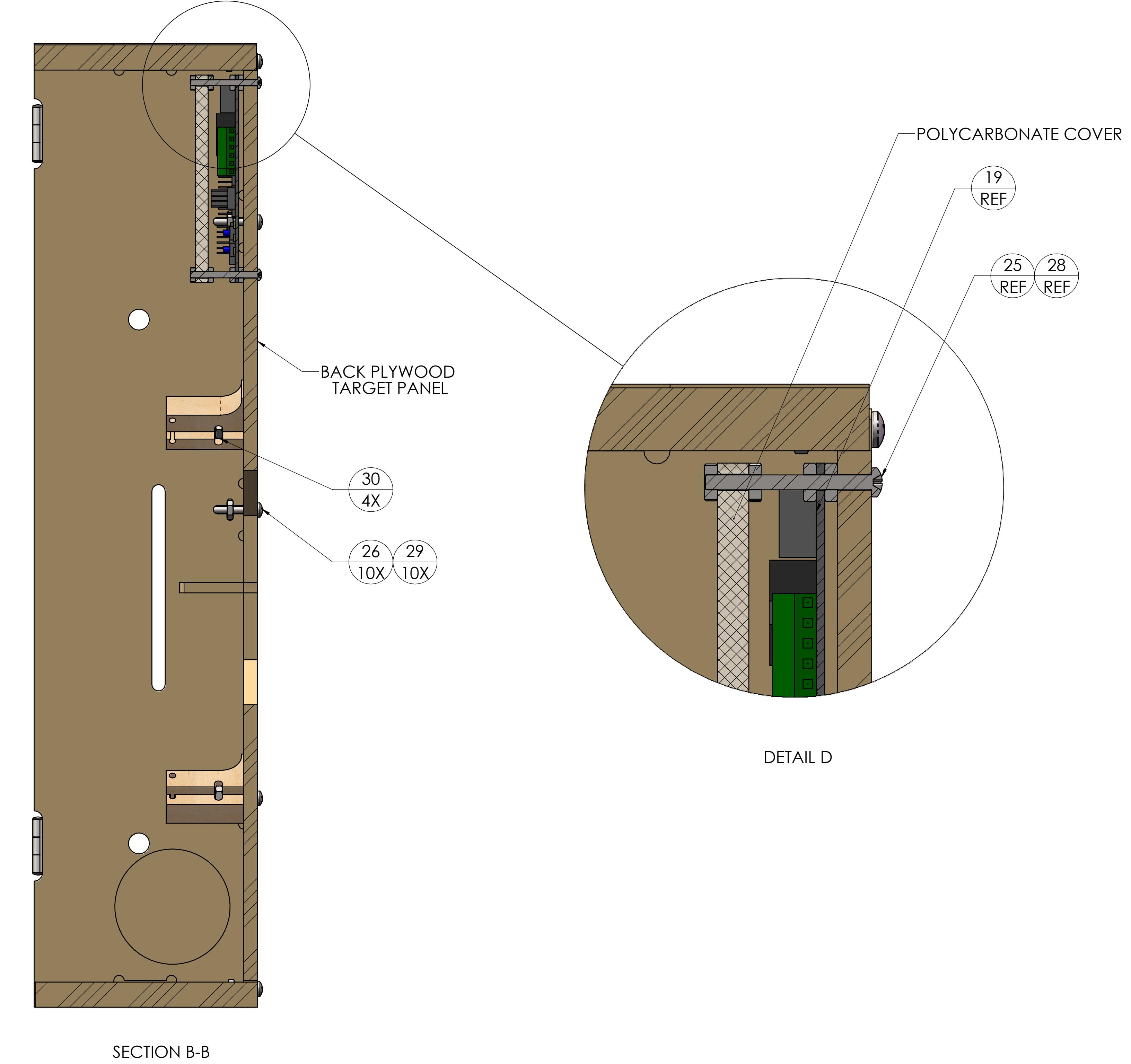
NOTES:

1 ITEM #15 FET-020 IS A POLYCARBONATE COVER DESIGNED FOR PROTECTING THE PC BOARD
INSTALLED IN THE EVENT THE BUILDER CHOOSES NOT TO BUILD OR INSTALL A FRONT PANEL WITH LED LIGHT STRIP,
THIS WILL SHIELD THE ELECTRONICS FROM STRAY PELLETS.

2 THE SMALL NOTCH CUT INTO THE EDGE OF THE RIGHT SIDE PANEL IS CORRECT
DISTACNCE FROM THE BASE TO THE Q OF THE TARGET.

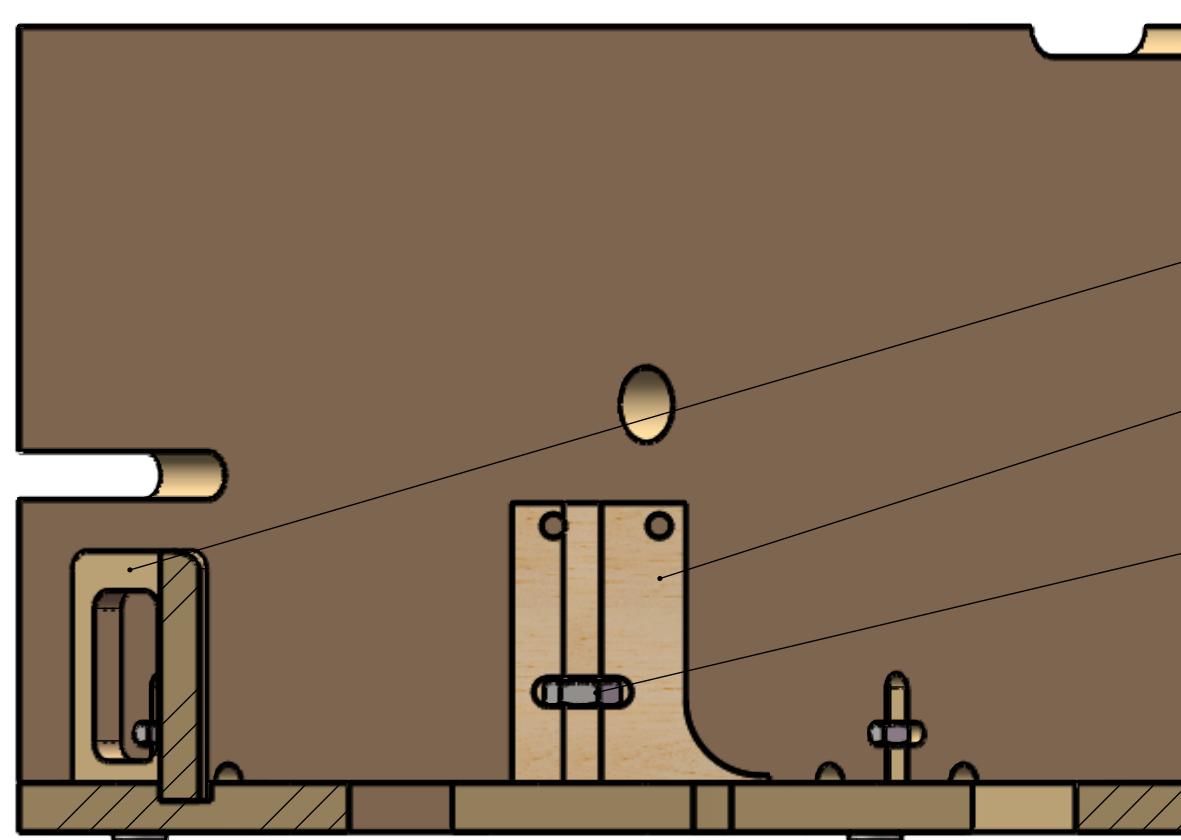


MOUNTING PC BOARD AND HARDWARE

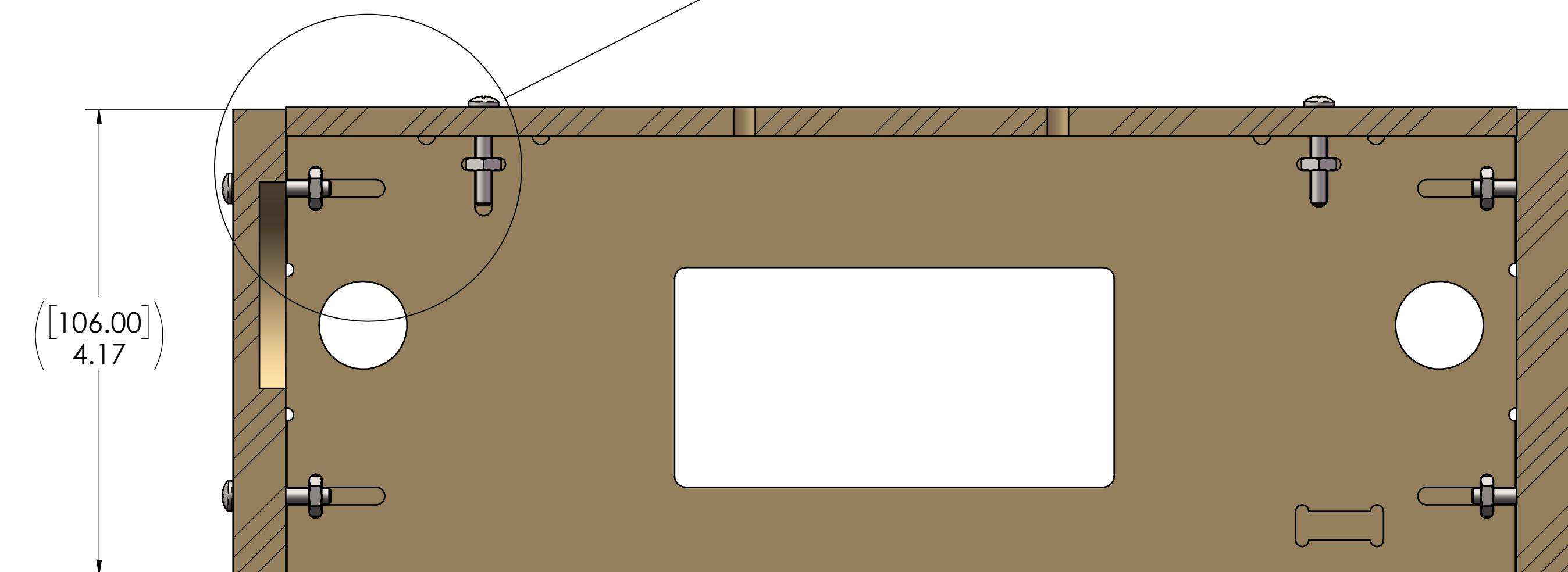


NOTES:

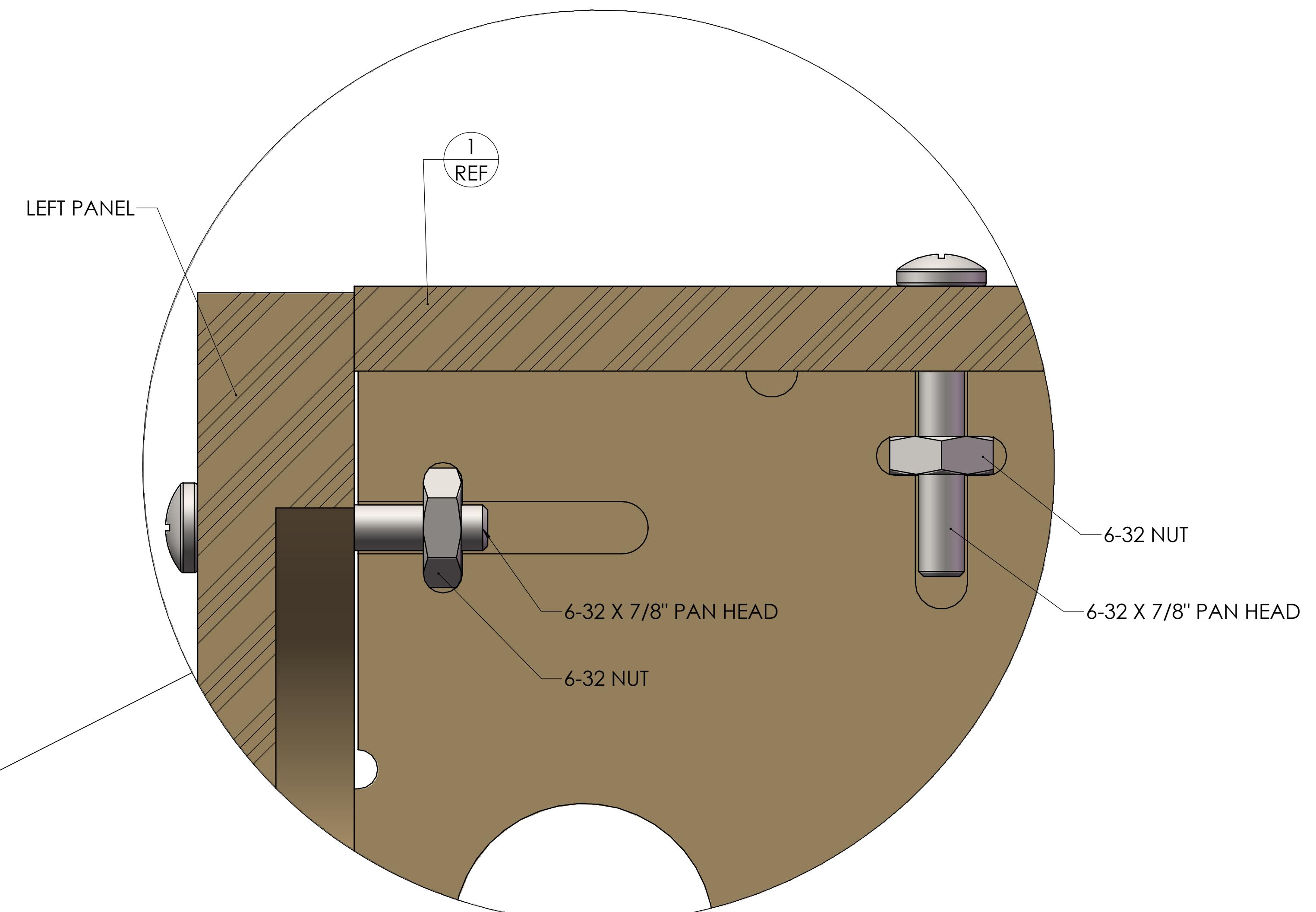
- 1 SENSOR MOUNTS ARE GLUED IN AS SHOWN . HOLES ARE PROVIDED SO BUILDER CAN USE ADDITIONAL SCREWS.
- 2 CABLE GUIDES ARE GLUED IN ONLY NO SCREW HOLES ARE PROVIDED.
- 3 INSTALL 4 8-32 NUTS INTO THE 4 SENSOR SUPPORTS.



SECTION C-C



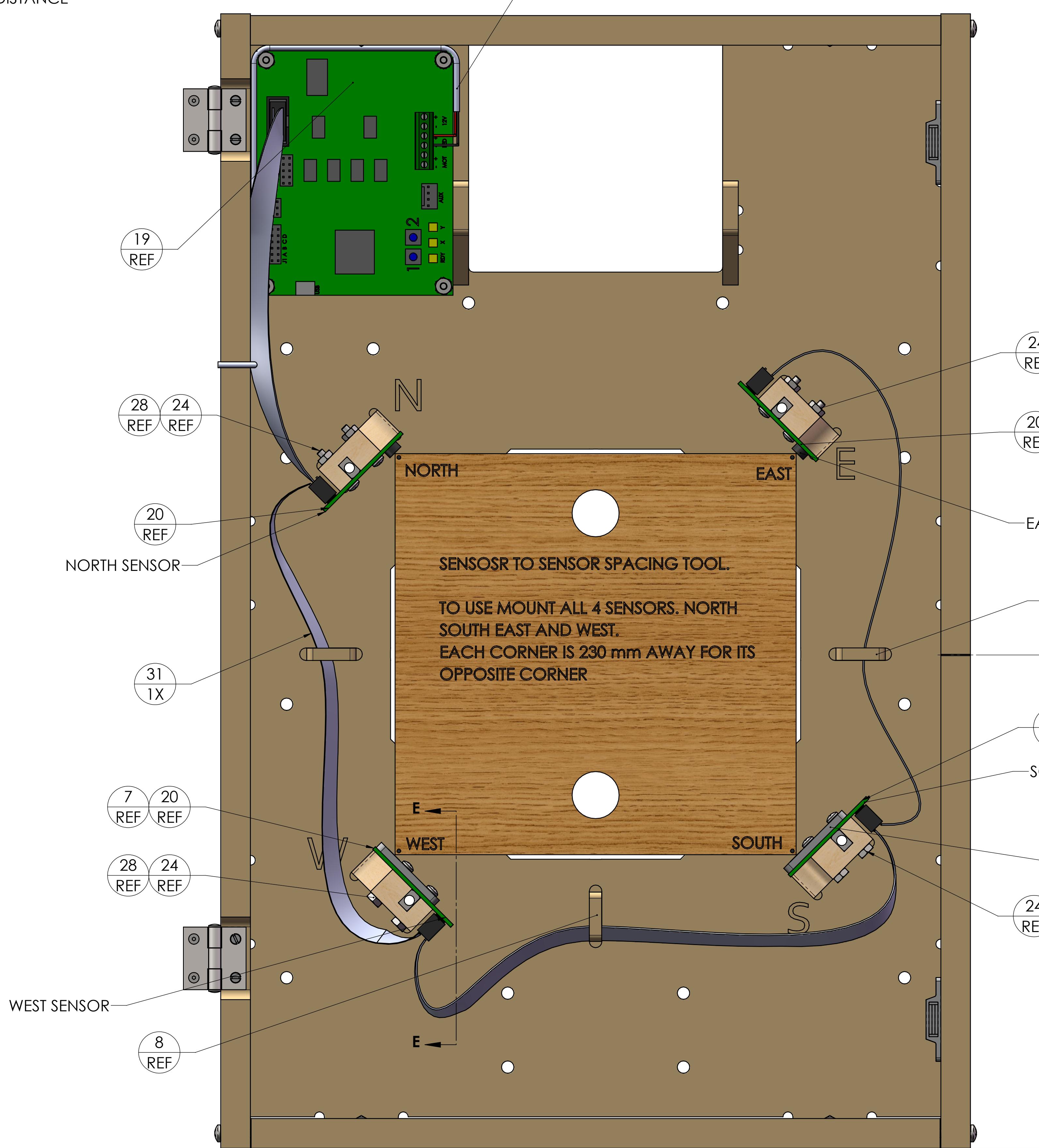
SECTION A-A



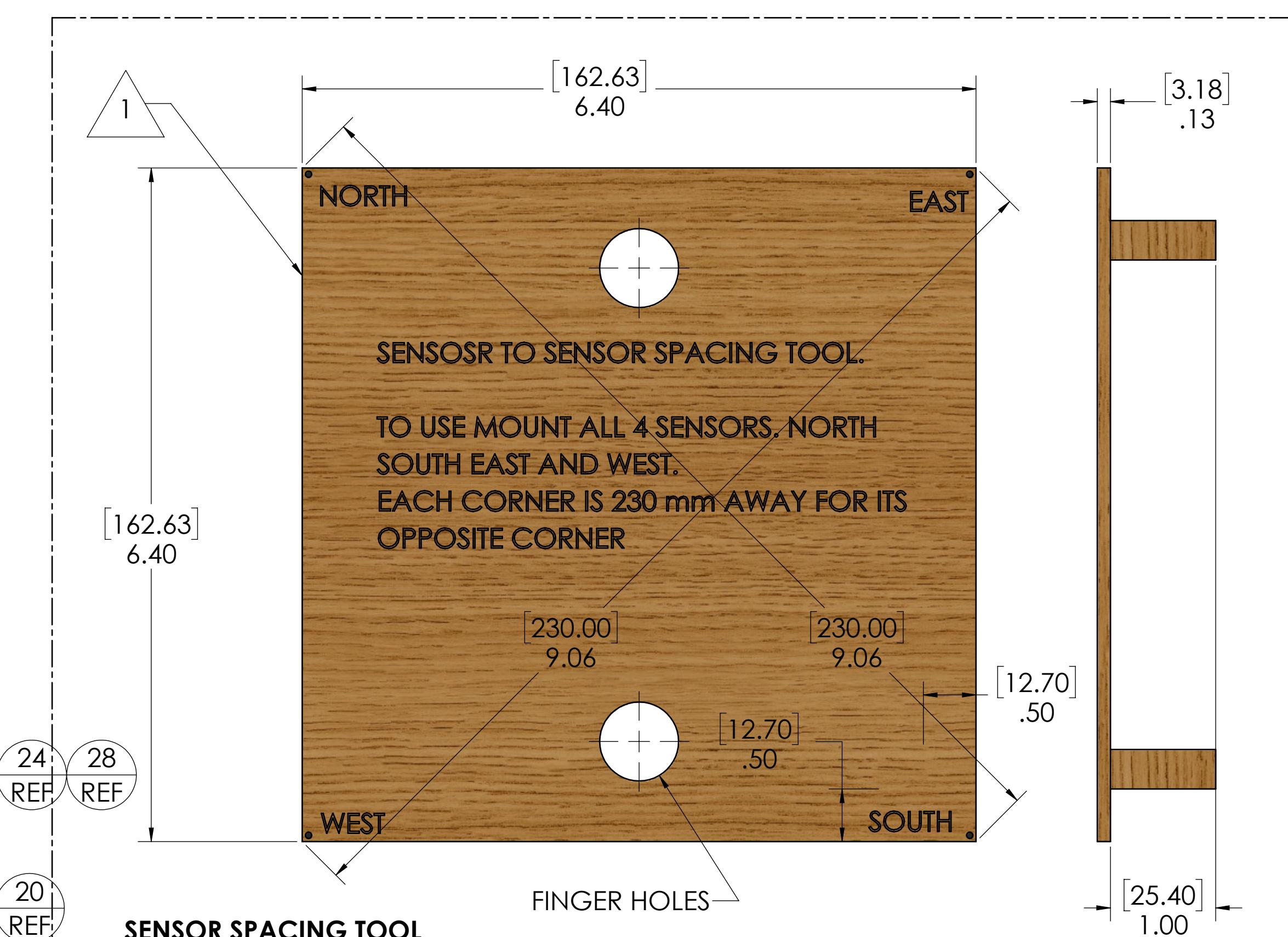
DETAIL D

NOTES:

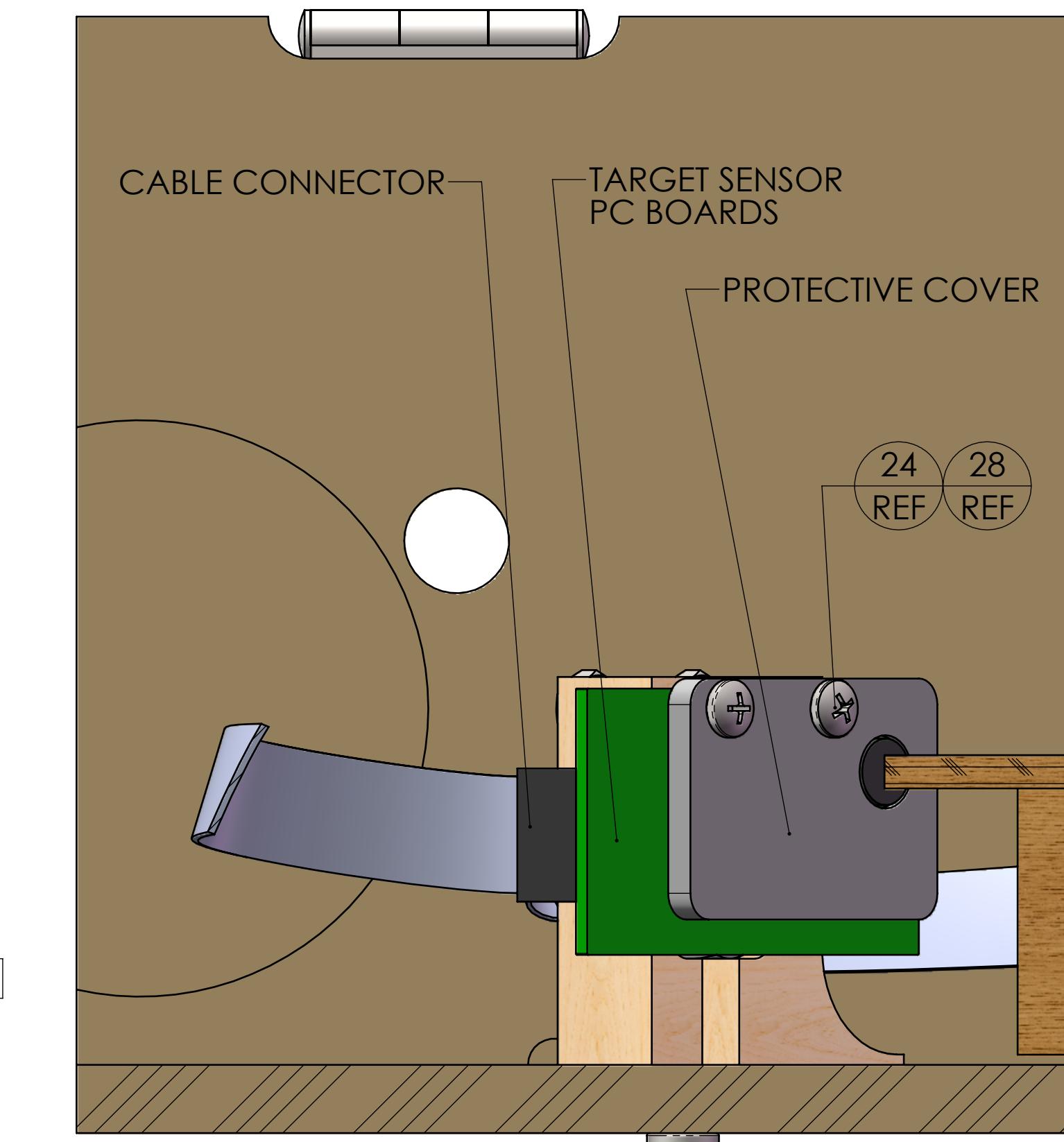
1 MAKE YOUR OWN SENSOR SPACER TOOL BY USING THE DRAWING AT RIGHT. PLACE AS SHOWN BELOW AND VERIFY THE EACH MIC IS SET TO THE CORRECT DISTANCE



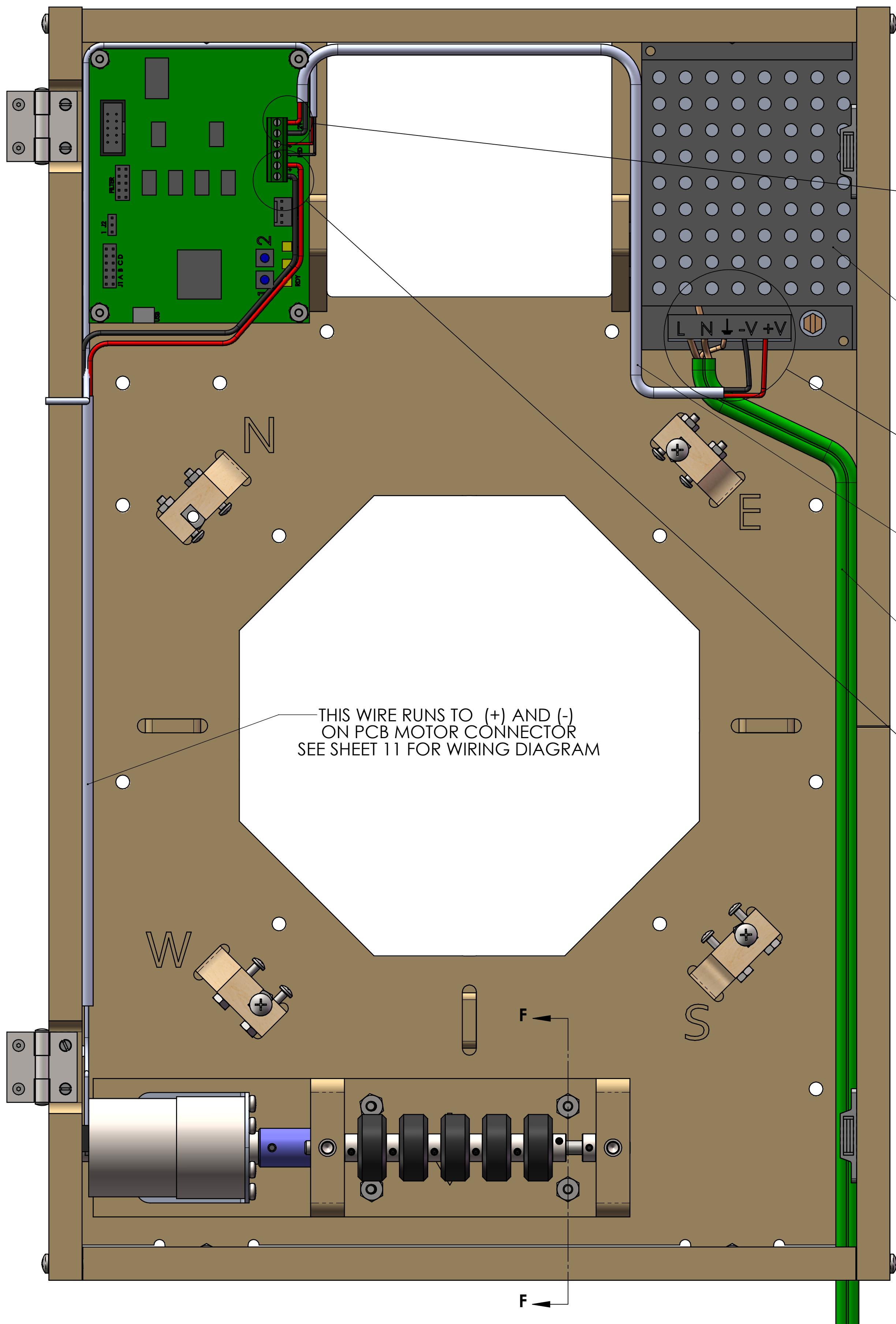
SENSOR AND CABLE ASSEMBLY



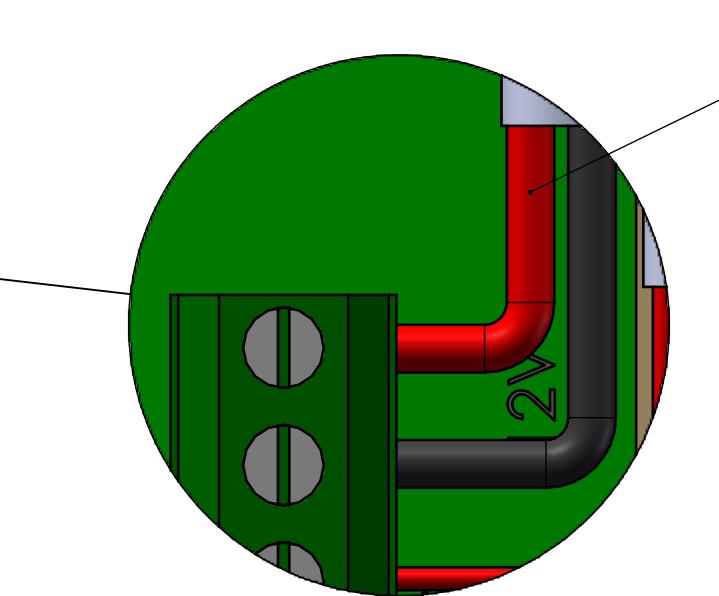
SENSOR SPACING TOOL



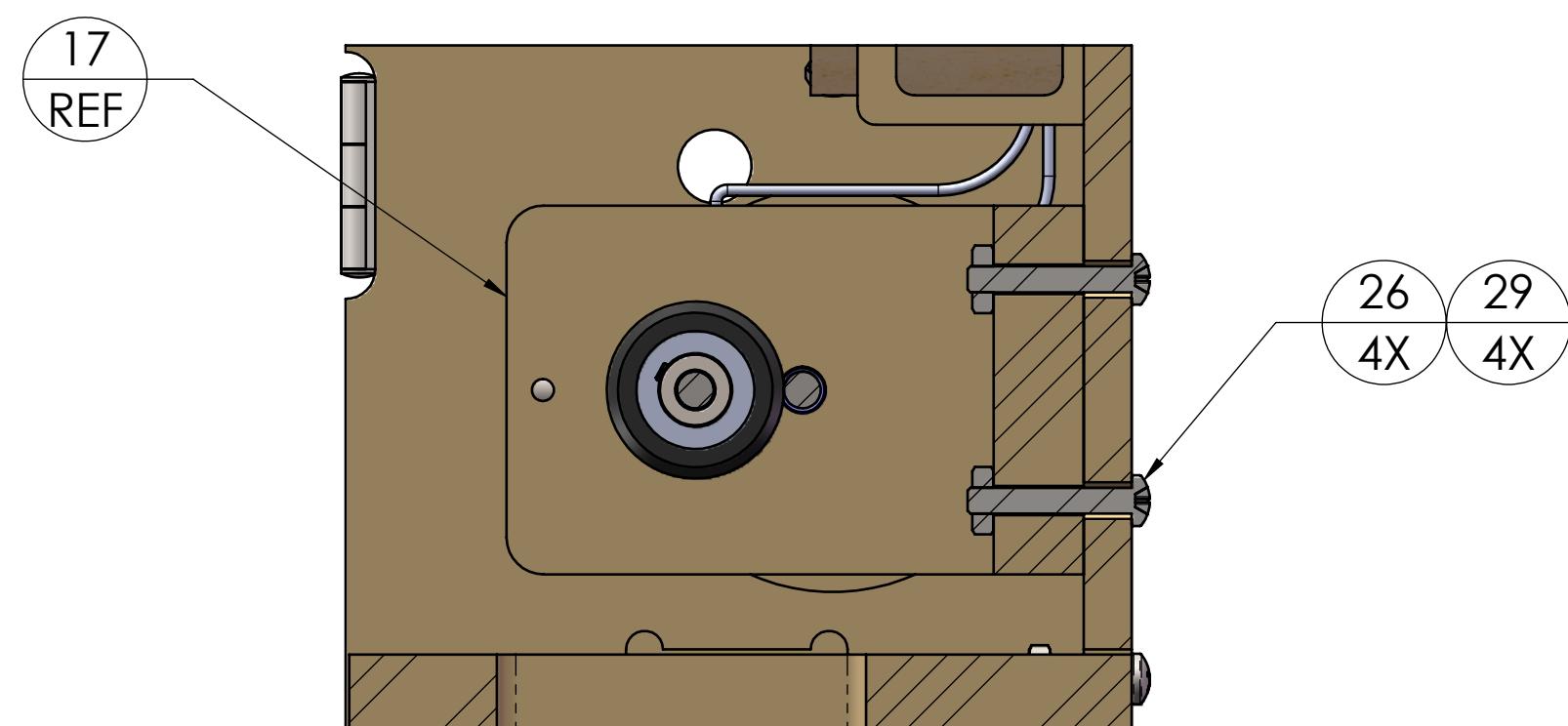
SECTION E-E



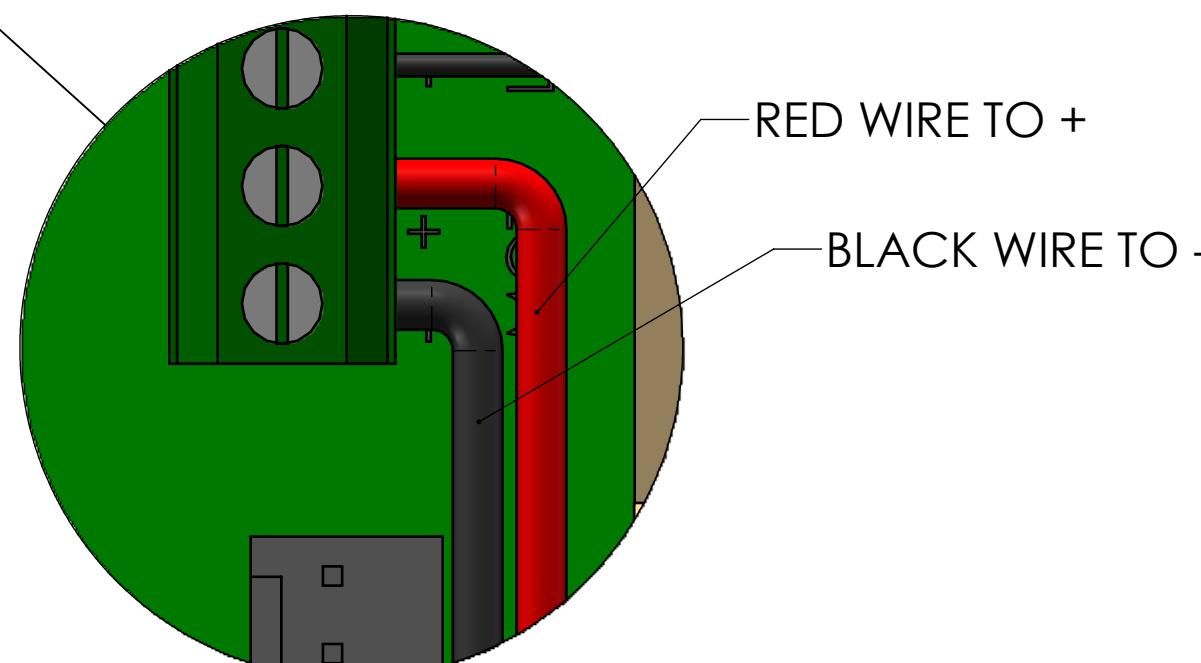
WIRING POWER SUPPLY CONNECTIONS TO PC BOARD WITNESS PAPER DRIVE



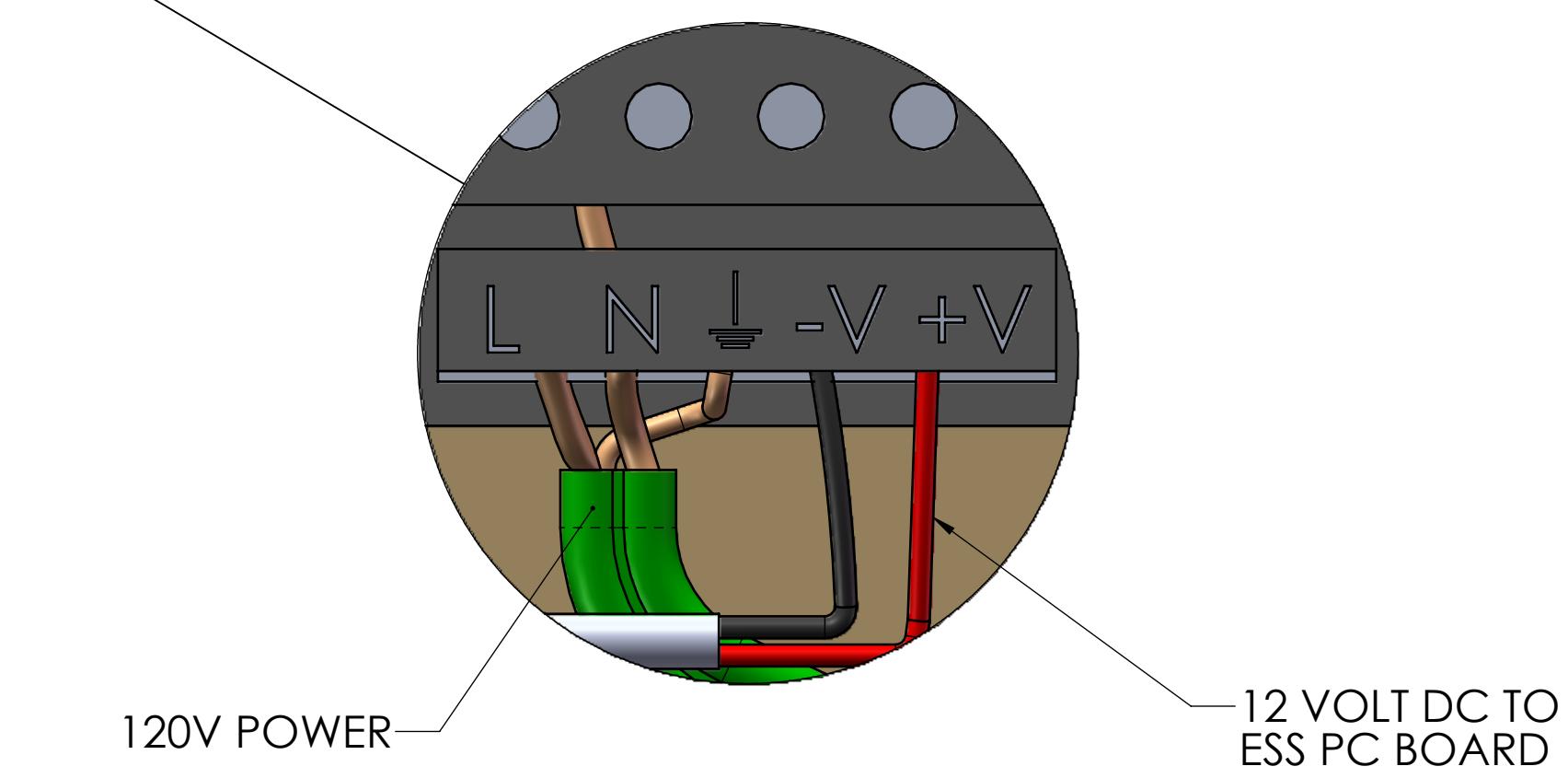
DETAIL G



SECTION F-F

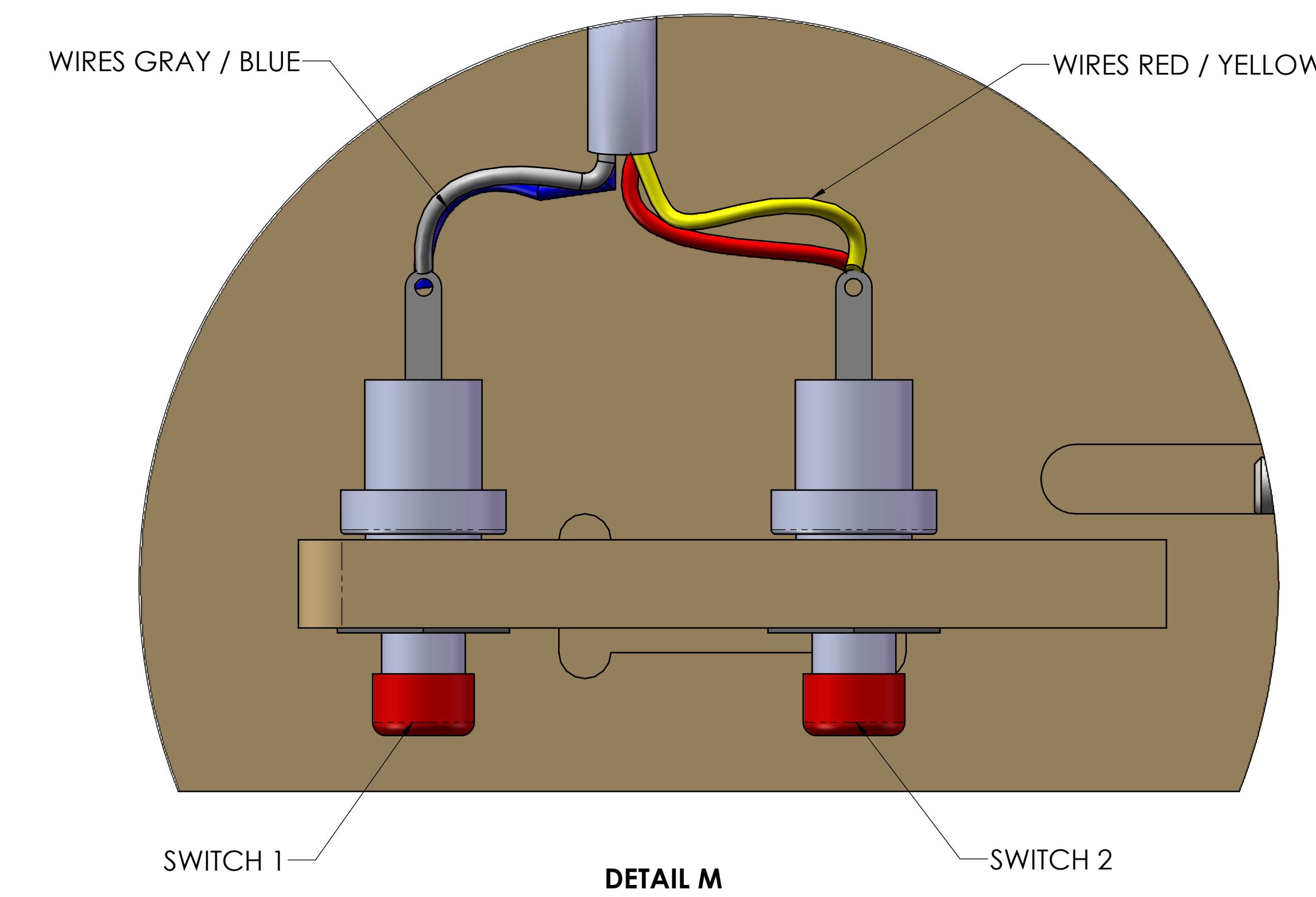
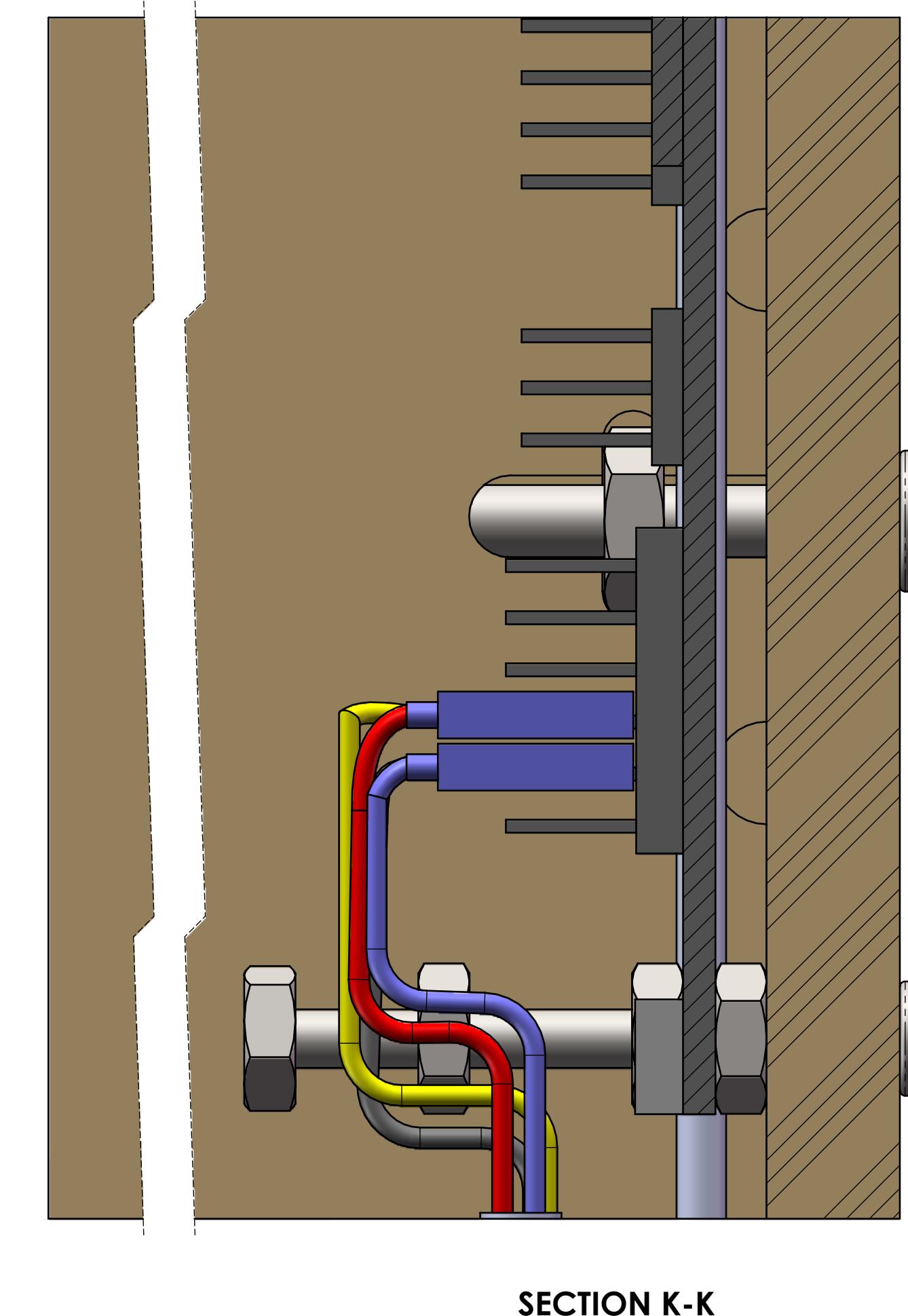
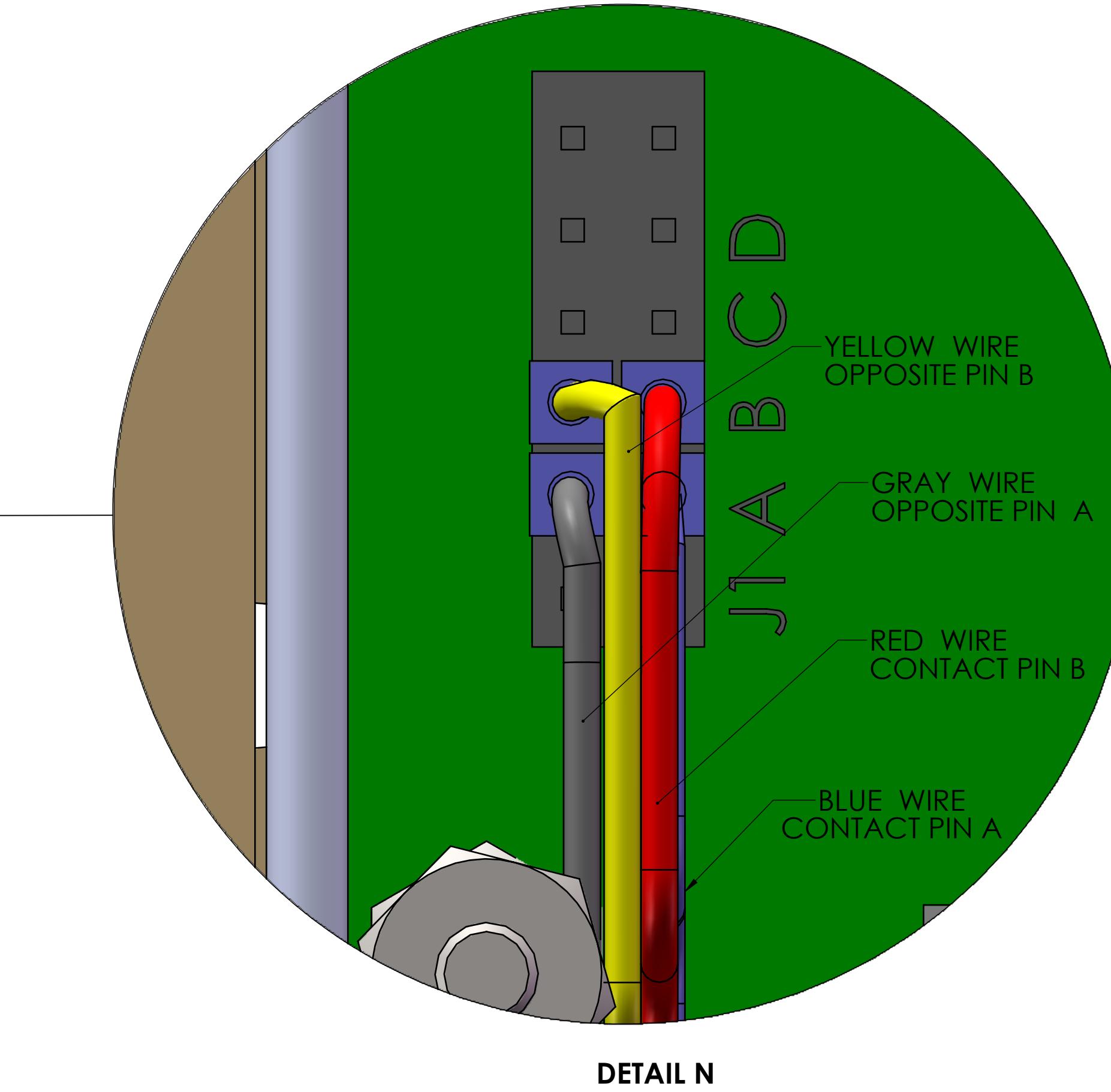
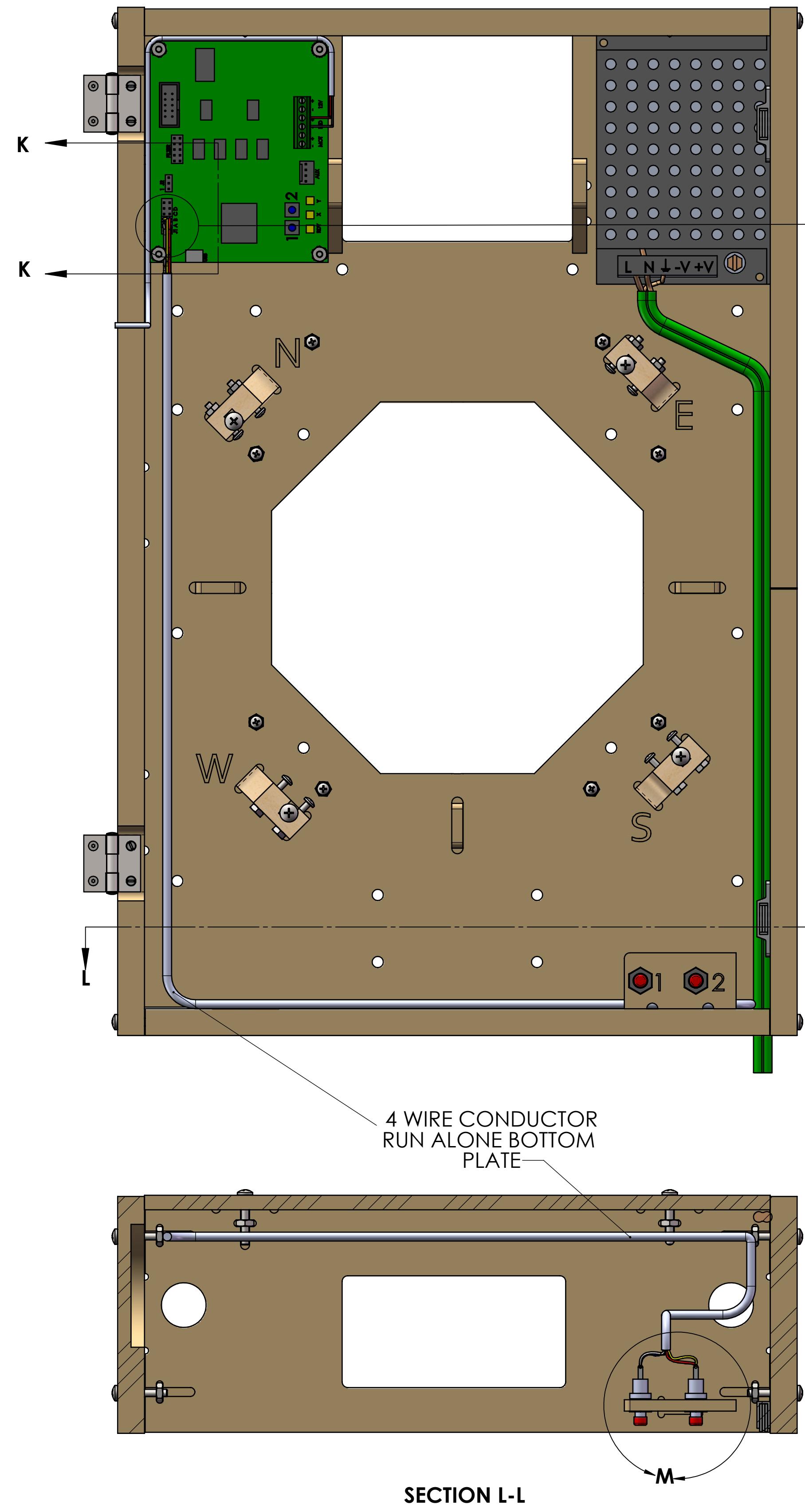


DETAIL H



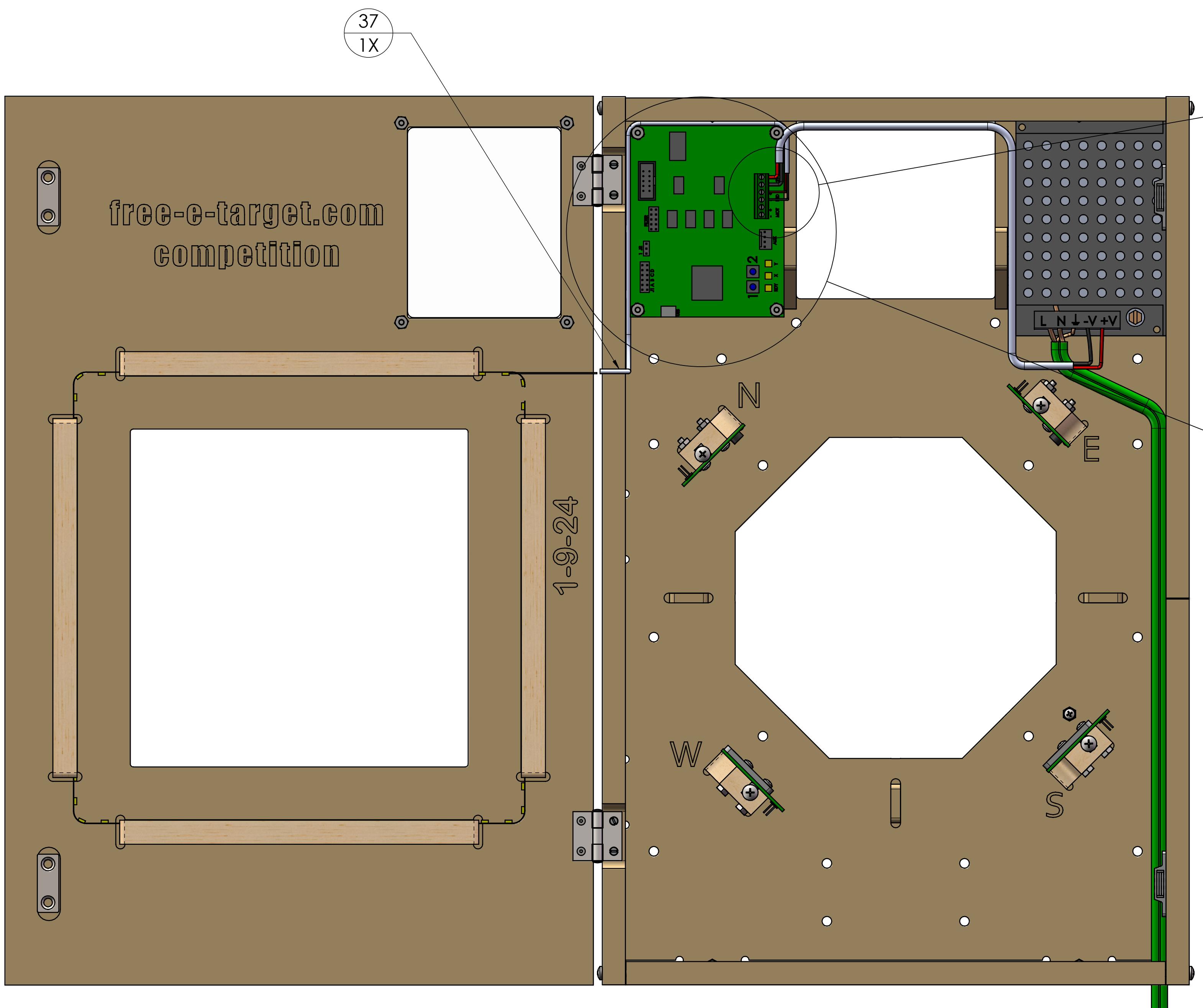
DETAIL J

THIS SHEET SHOWS THE WIRING OF THE MULTIFUNCTION SWITCHES.
SEE SHEET 13 FOR CLEAER WIRING DIAGRAM.

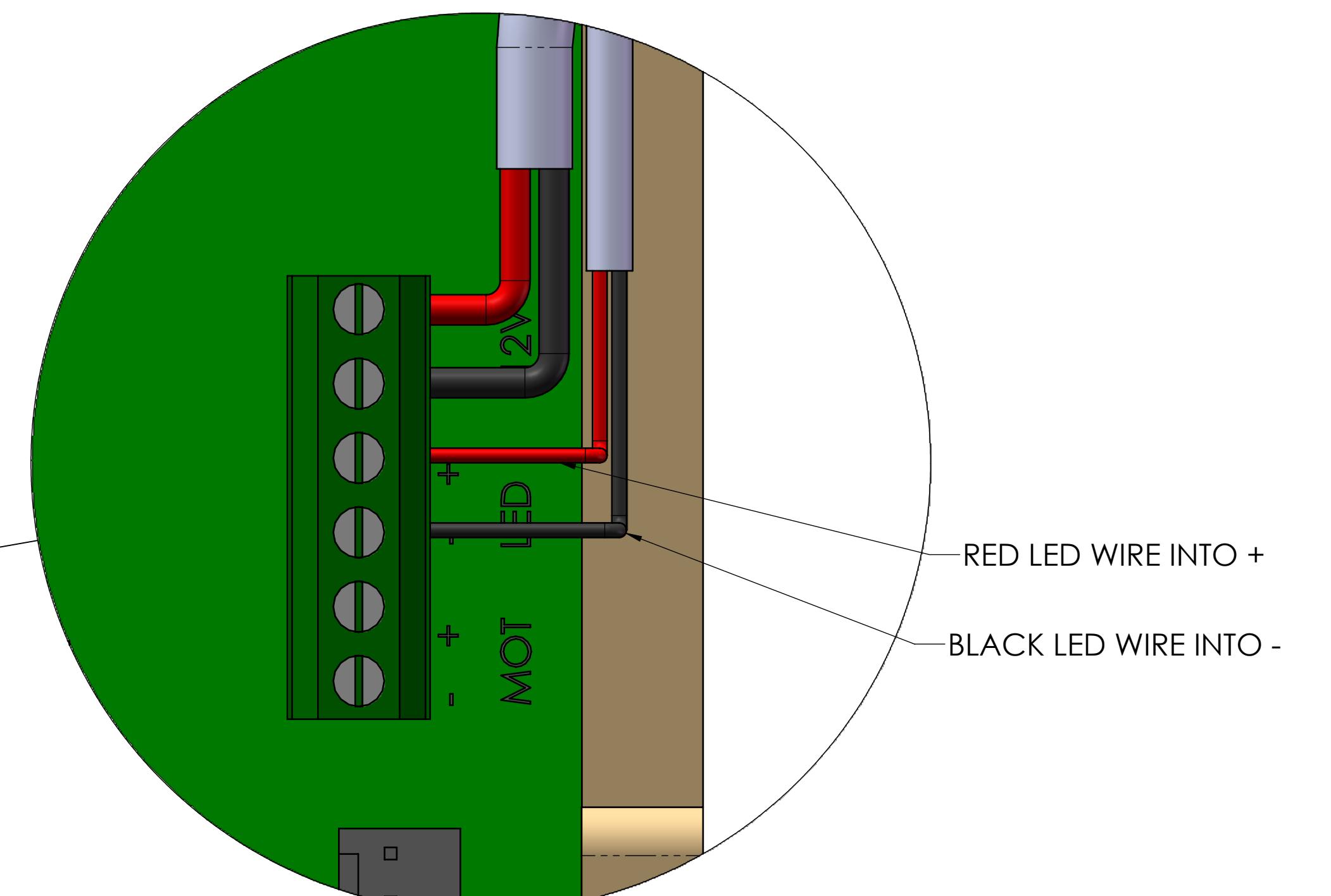


1. TO WIRE THE LED STRIP LOCATE A 2 CONDUCTOR WIRE. CONNECT THE RED WIRE TO (+) TERMINAL ON THE PC BOARD. CONNECT THE BLACK WIRE TO (-) CONNECTOR ON THE PC BOARD. RUN THE WIRE IN ANY METHOD YOU CHOOSE. THE EXAMPLE SHOWN IS THIS DESIGNERS CHOICE, YOU RUNS YOU HOW EVER YOU WISH.

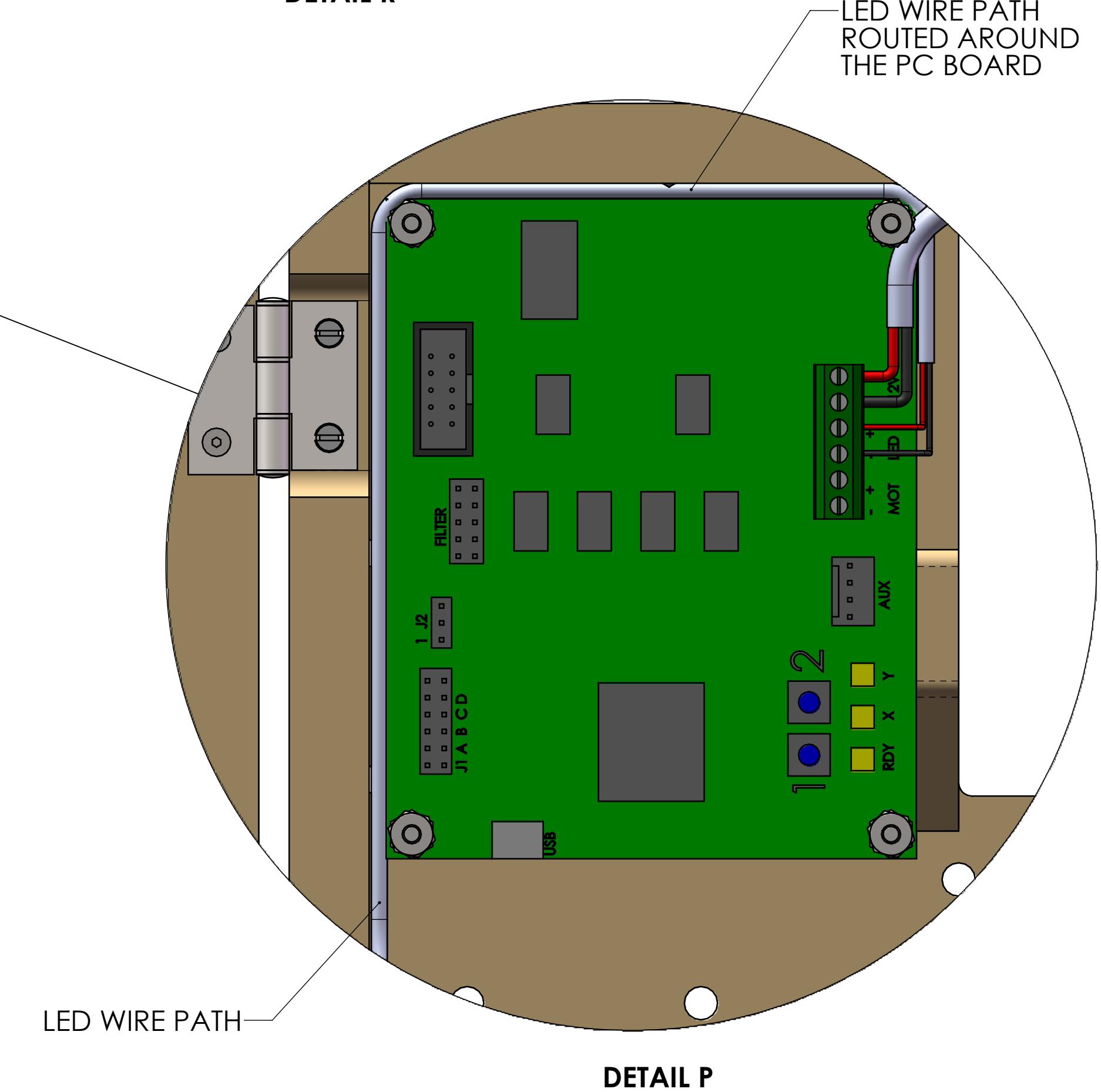
2. SOLDER THE SECOND OF THE WIRES TO THE (+) AND (-) SOLDER POINTS ON THE LED STRIP AND GIVE YOUR SELF ENOUGH WIRE SO NOT TO STRAIN IT WHEN OPENING THE FRONT PANEL. SEE SHEET 12 FOR CLEAER WIRING DIAGRAM.



DRAWING OF WIRING THE LED

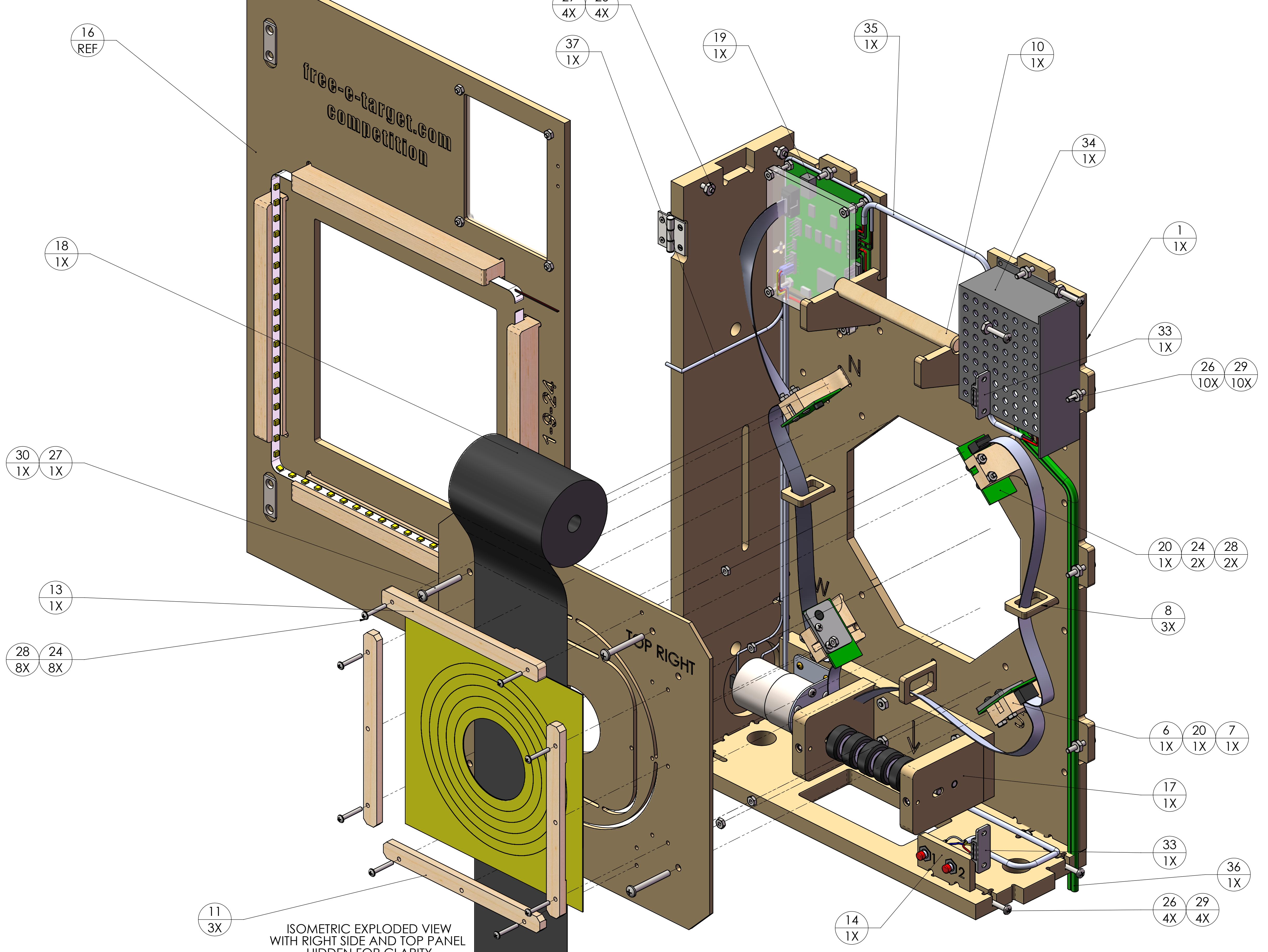


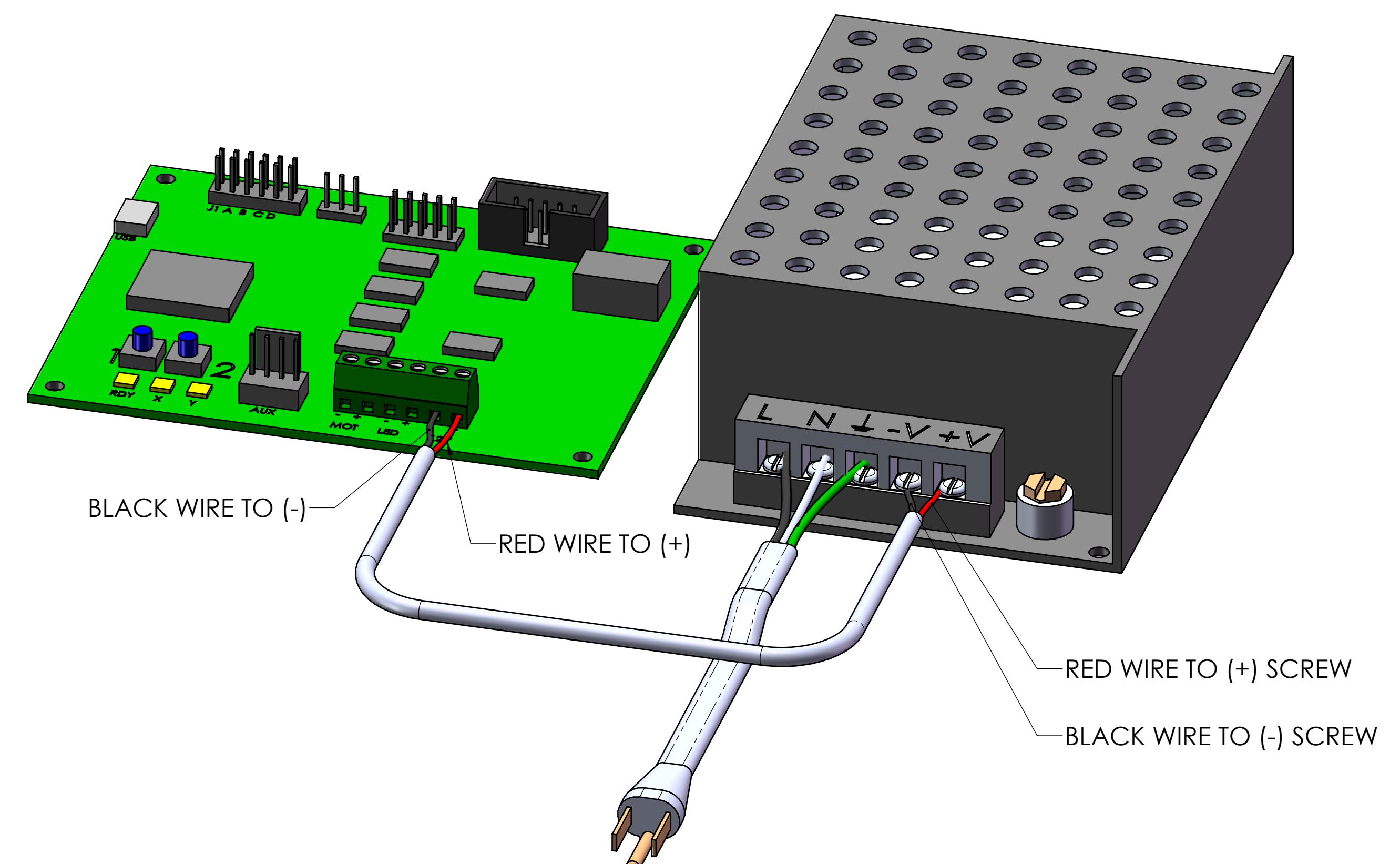
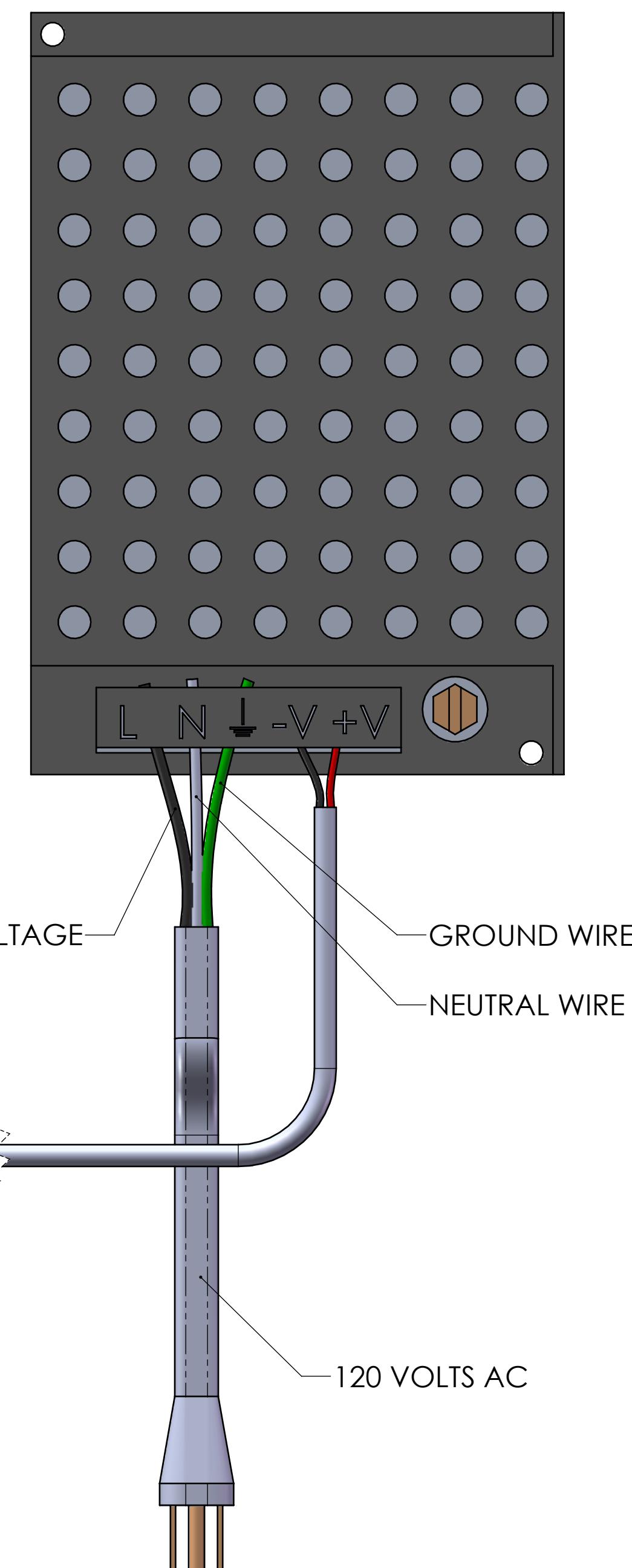
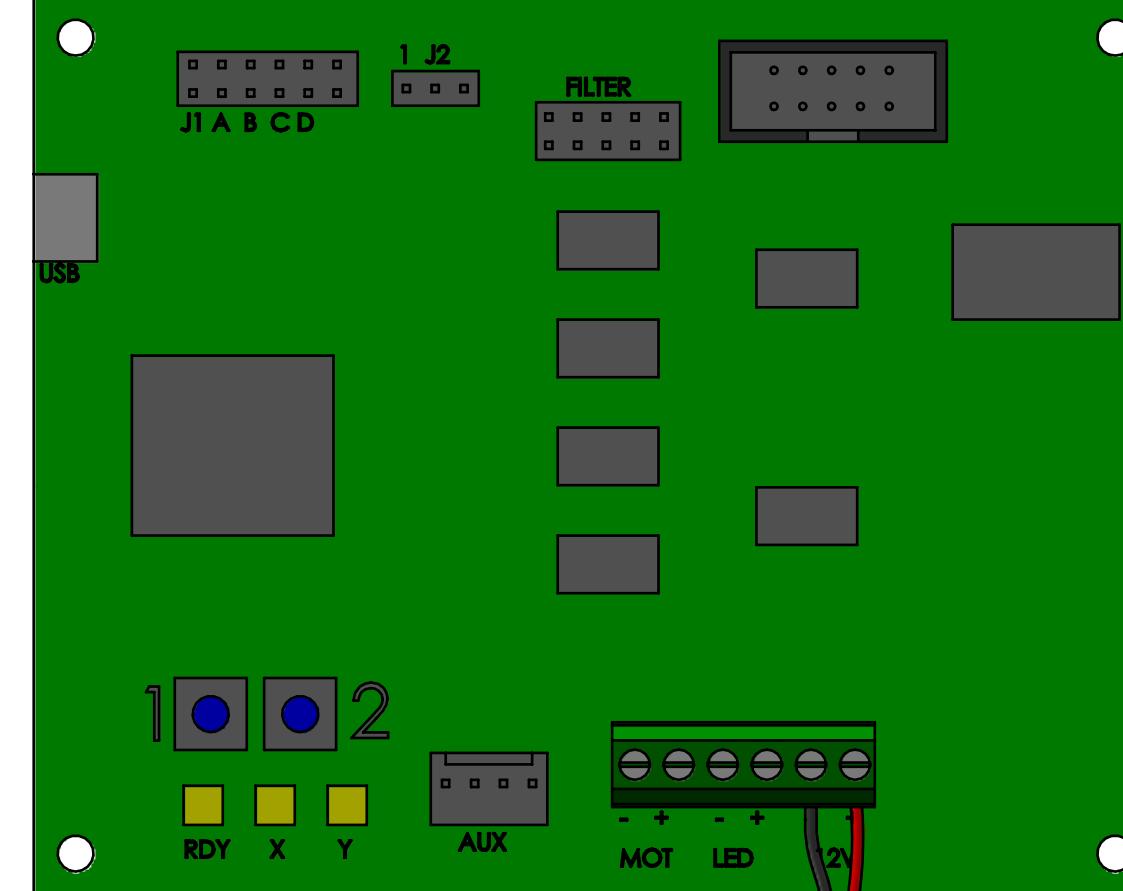
DETAIL R



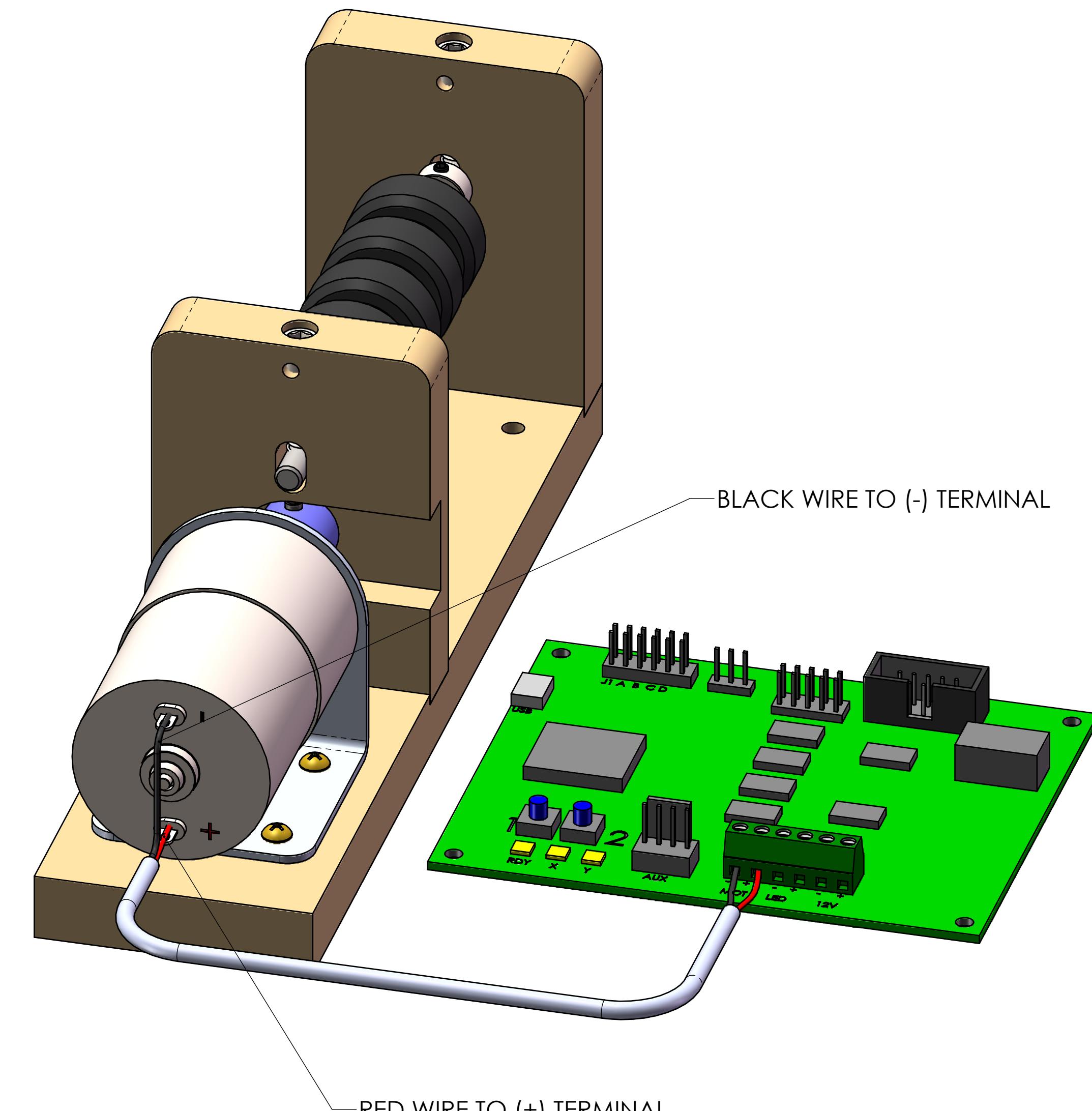
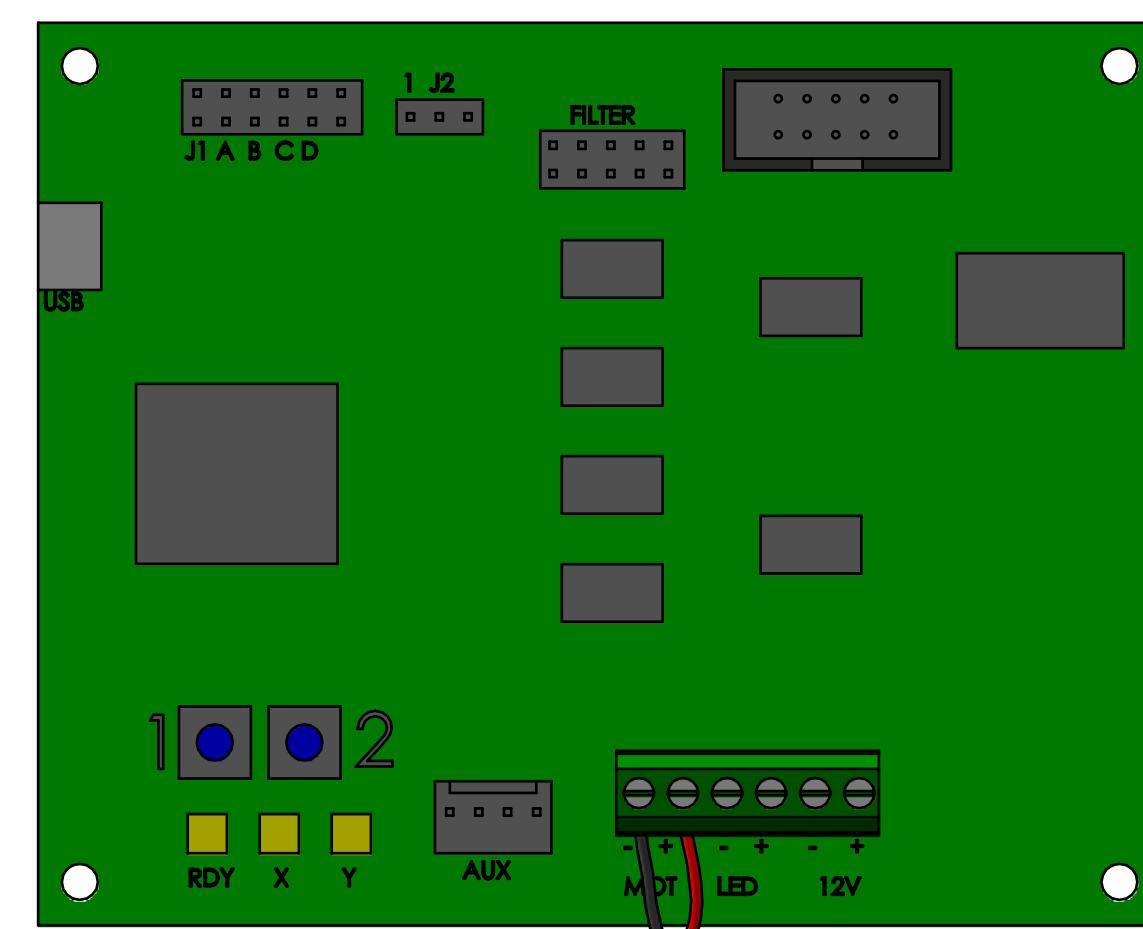
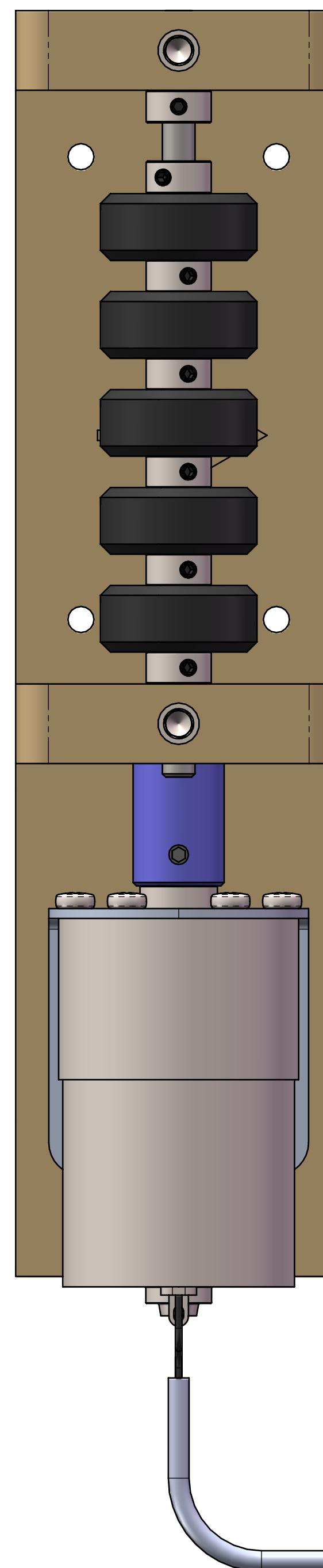
DETAIL P

8 7 6 5 4 3 2 1

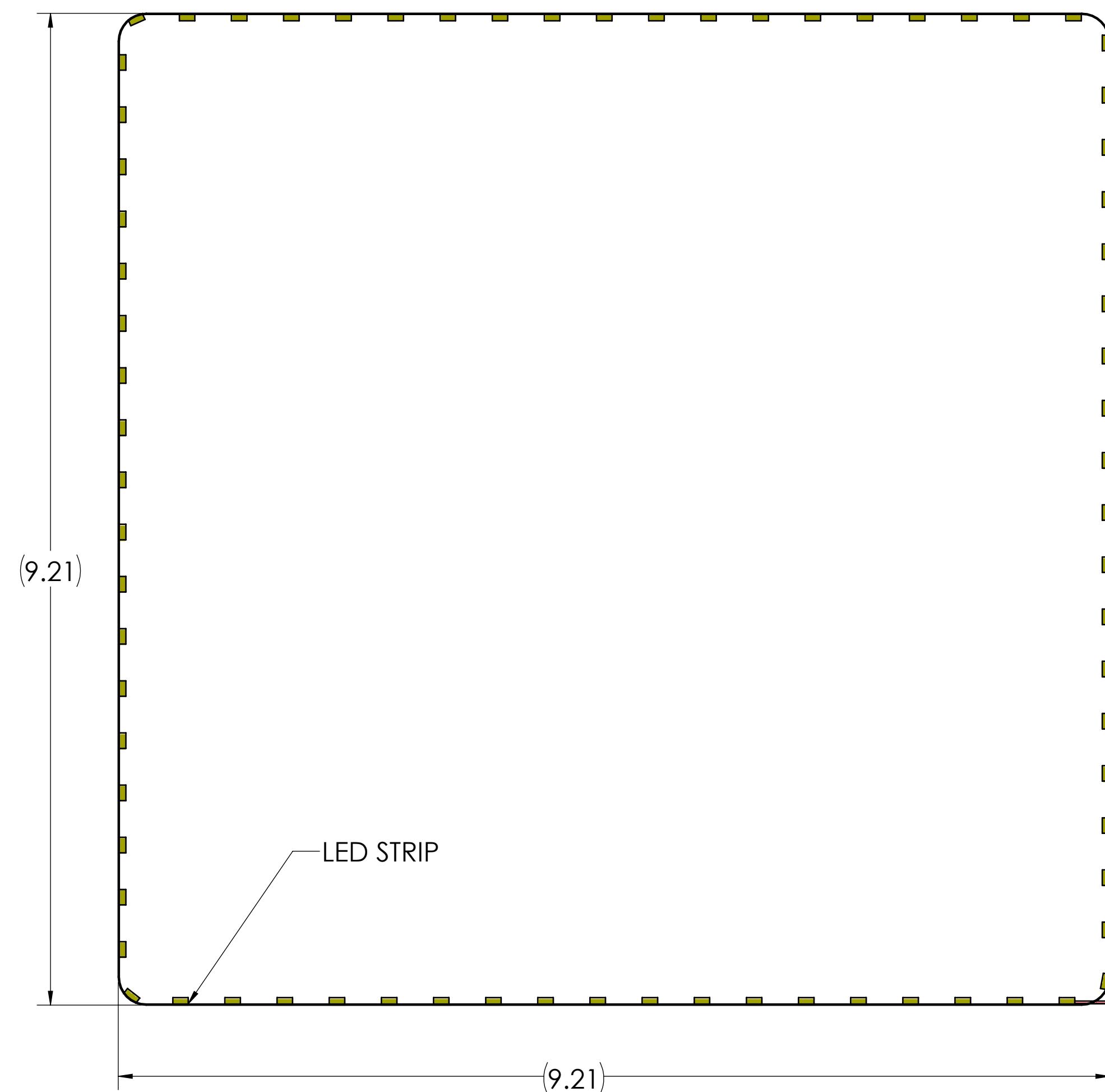




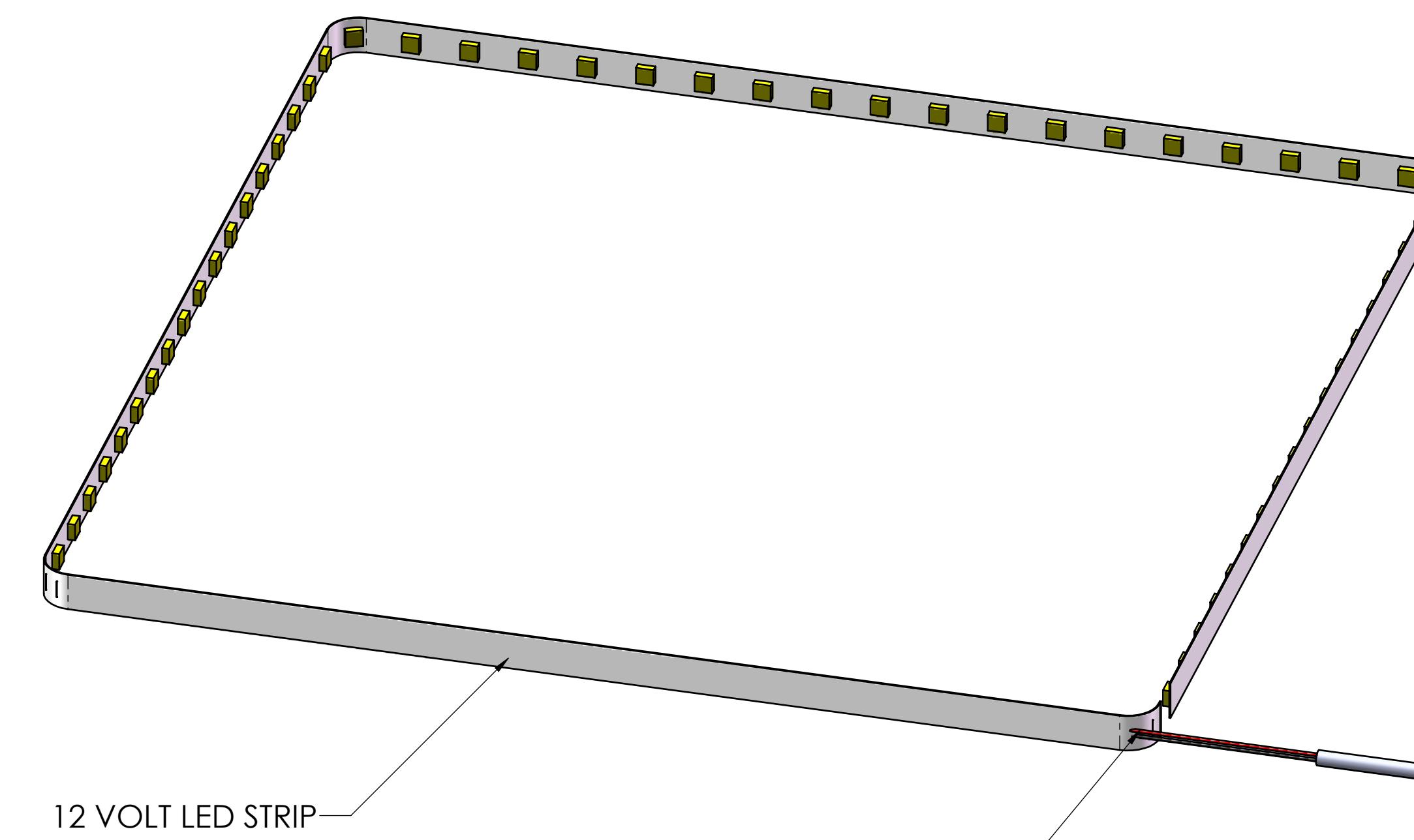
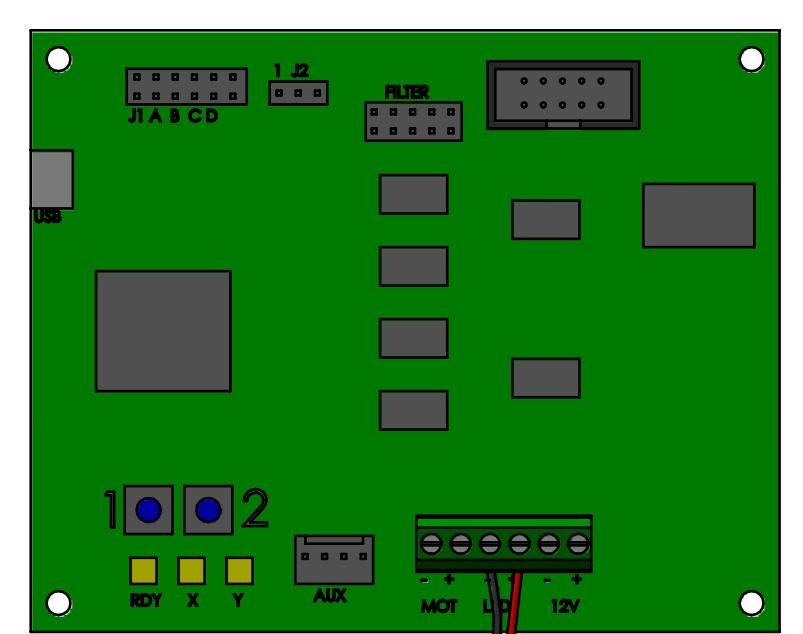
WIRING 12 VOLT POWER SUPPLY TO ESS PC BOARD



WIRING WITNESS PAPER DRIVE ASSEMBLY



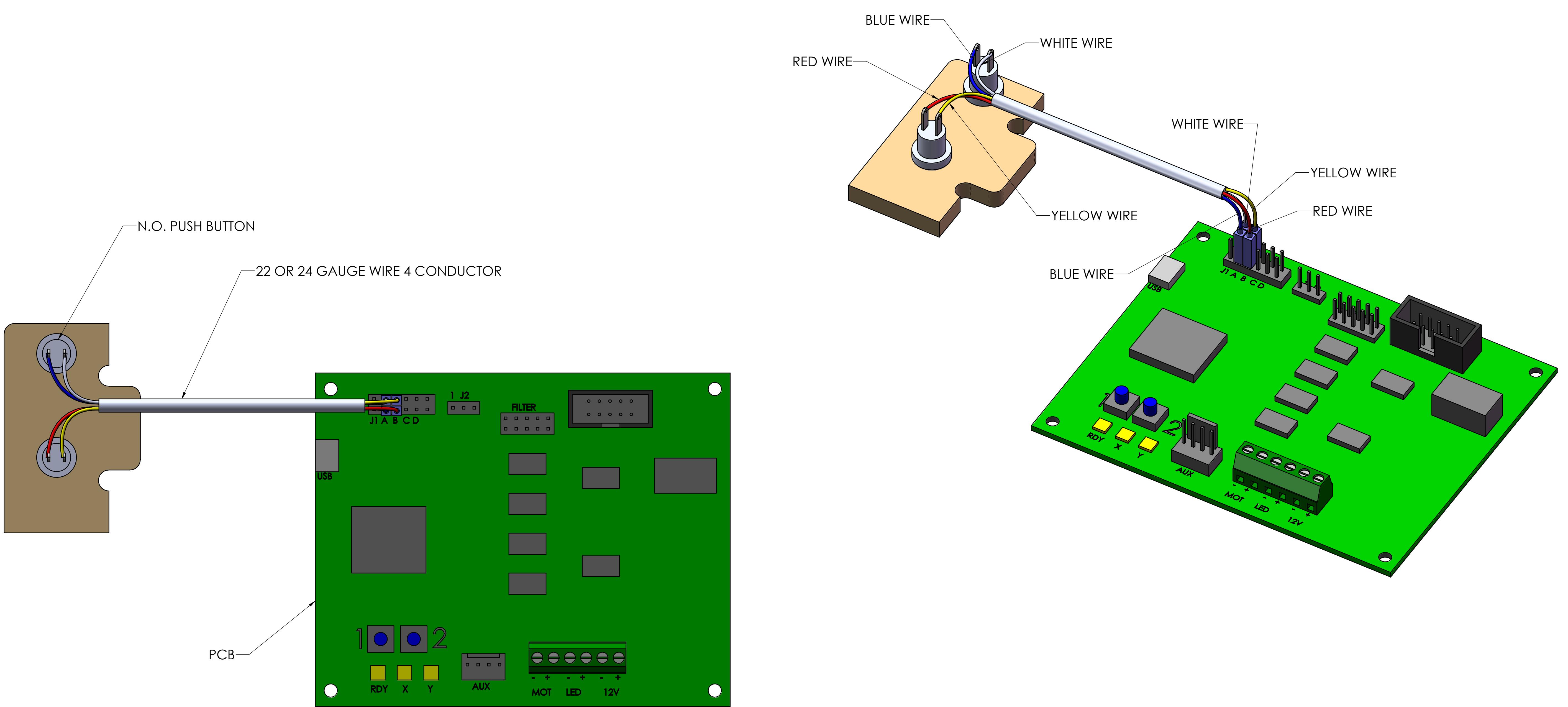
LED STRIP



SOLDER WIRE TO MARKED SOLDER POINTS
MARKED ON THE LED STRIP

LED WIRING TO ESS PCB

8 7 6 5 4 3 2 1



WIRING MULTI FUNCTION SWITCHES TO PCB

8 7 6 5 4 3 2 1

