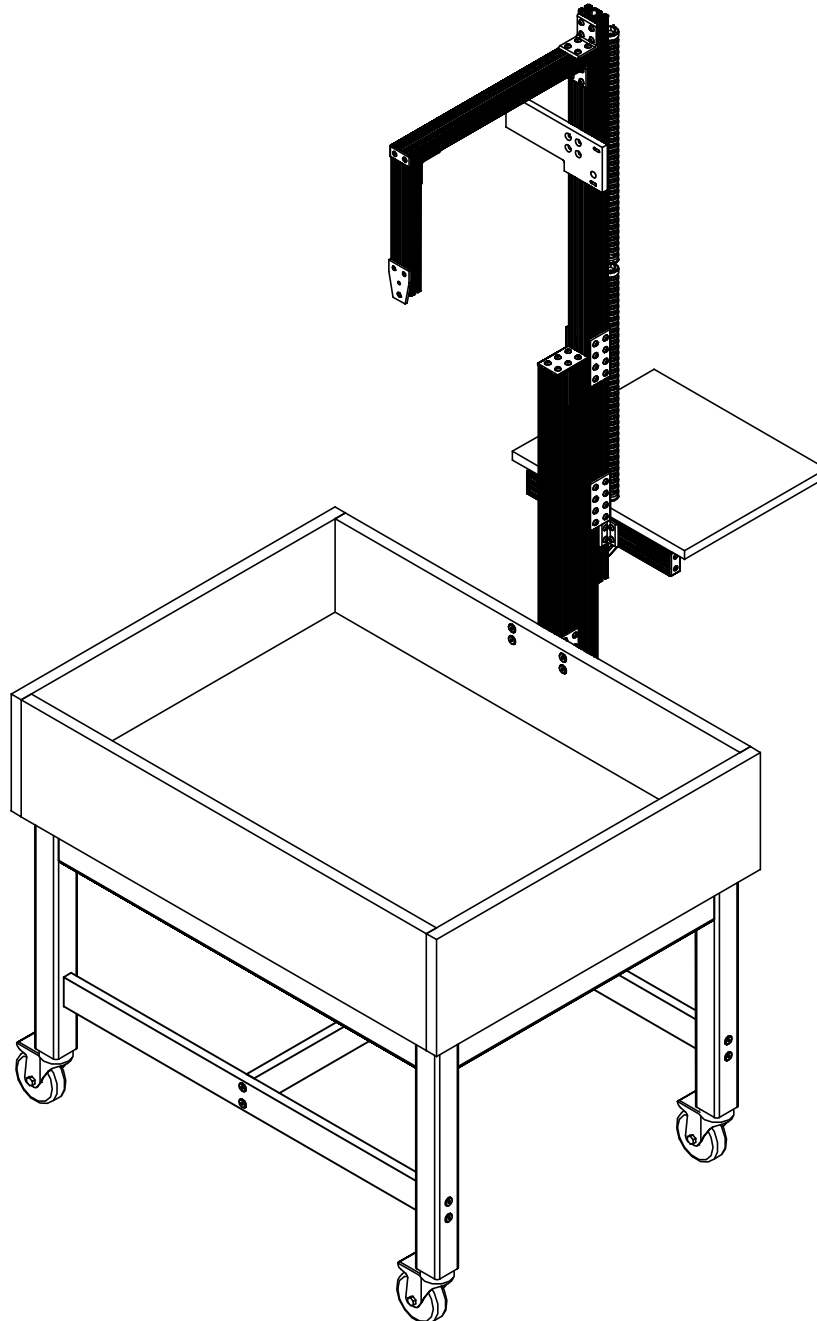


AUGMENTED REALITY SANDBOX

ARS-4030
ASSEMBLY INSTRUCTIONS



NOTE:

1. MODEL VIEWS MAY NOT REPRESENT EXACT MODEL PURCHASED

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| DRAWING NUMBER: | SCALE: | SHEET: | REVISION: |
| ARS-4030 | NTS | 1 OF 19 | REV A |

PALLET CONTENTS

| ITEMS INCLUDED | PART # | PART DESCRIPTION | QTY |
|--------------------------|----------|--|-----|
| SANDBOX ASSEMBLY | N/A | SANDBOX ASSEMBLY (FACTORY ASSEMBLED) | 1 |
| APRON ASSEMBLY | N/A | APRON ASSEMBLY (FACTORY ASSEMBLED) | 1 |
| ALUMINUM EXTRUSION KIT | 252933 | ARS-4030 HARDWARE KIT, PRICE ENGINEERING | 1 |
| STRETCHER | N/A | STRETCHER - 0.75"THK X 2.50"W X 26.88"L | 1 |
| BRACE | N/A | BRACE - 0.75"THK X 2.50"W X 35.38"L | 2 |
| LAPTOP SHELF | N/A | LAPTOP SHELF - 0.75"THK X 14.00"W X 17.00"L | 1 |
| *LEGS* - SEE NOTE 1 | N/A | LEG,2.25X2.25X28.25 | 4 |
| *WASHERS* - SEE NOTE 1 | 100039 | WASHER,SPLIT LOCK 5/16 | 4 |
| *HEX NUTS* - SEE NOTE 1 | 100044 | NUT,HEX 5/16-18 STEEL ZINC | 4 |
| *CASTERS* - SEE NOTE 1 | 255721 | CASTER,4",TOTAL LOCK STEM CASTER M12 - 1.75MM X 1.5" | 4 |
| *CONFIRMATS - STRETCHER* | 228564 | SCREW,7MMX50MM,CONN,ALLENHEAD,BLACK | 4 |
| *CONFIRMATS - BRACE* | 227578 | SCREW,7MMX90MM,CONN,ALLENHEAD,BLACK | 8 |
| LAPTOP | 257897 | LAPTOP,ACER NITRO 5,MODEL:AN515-55-53E5, NH.QB0AA.001-WINDOWS 10 | 1 |
| CAMERA/SENSOR BAR | 257910-U | KINECT V2 CAMERA-REFURBISHED MODELS | 1 |
| PROJECTOR | 252555 | BENQ 9H.JE177.13A MX631ST PROJECTOR | 1 |
| HARDWARE BOX | N/A | MISC ITEMS - SEE NEXT PAGE FOR CONTENTS | 1 |

NOTE:

- LEGS, WASHERS, HEX NUTS & CASTERS ARE BOXED TOGETHER.

| | | |
|---|-----------------------------------|--|
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**AUGMENTED REALITY SANDBOX
PALLET CONTENTS**

| | | | |
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| DRAWING NUMBER: ARS-4030 | SCALE: NTS | SHEET: 2 OF 19 | REVISION: REV A |
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| REV. | DESCRIPTION | DATE | NAME | ECN NO. |
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HARDWARE BOX PACKING LIST

| ITEMS INCLUDED | PART # | PART DESCRIPTION | QTY | PACKED |
|--|------------------|--|-----|--------|
| PROJECTOR MOUNTING BLOCK | 252793 OR 255571 | PROJECTOR MOUNTING BLOCK - 0.50"THK X 3.875"W X 9.50"L | 1 | |
| MOUNTING BLOCK FOR 2"X4" ALUMINUM UPRIGHT | 252983 | MOUNT BLOCK,1.75" X 2.25" X 7.00" | 1 | |
| SCREWS - APRON ASSEMBLY TO SANDBOX ASSEMBLY | 100641 | SCREW,#8X1-3/4 QUAD RD WASH HD | 14 | |
| CONFIRMATS - MOUNTING CLEAT | 252459 | SCREW,1/4-20X60MM,CONN, ALLENHEAD,BLACK | 4 | |
| CONFIRMATS - SANDBOX | 252460 | SCREW,1/4-20X20MM,CON,ALLENHEAD,BLK | 4 | |
| JOINT CONNECTING NUT - MOUNTING CLEAT & SANDBOX | 234337-JCN | JOINT CONNECTING NUT, 1/4-20X17MM | 8 | |
| CABLE ADAPTER | 257960 | HDE POWER SUPPLY AC CABLE ADAPTER FOR XBOX KINECT V2 MOTION SENSOR | 1 | |
| HDMI CABLE | 252579 | CABLE,HDMI, 6 FEET | 1 | |
| SCREWS FOR CAMERA MOUNT | 252718 | SCREW,#10-32X5/8" PHILLIPS FLAT HEAD MACHINE SCREW | 2 | |
| SCREWS FOR PROJECTOR BRACKET | 252720 | SCREW,1/4"-20X3/4" PHILLIPS FLAT HEAD MACHINE SCREW | 4 | |
| SCREWS FOR PROJECTOR | 252719 | SCREW,M4-0.7X20MM PHILLIPS PAN HEAD MACHINE SCREW | 3 | |
| DROP LEAF SUPPORT FOR LAPTOP SHELF | 100028 | SUPPORT,DROP LEAF 497840-1956 | 1 | |
| SCREWS FOR DROP LEAF SUPPORT AND ALUMINUM HINGES | 100111 | SCREW,5/8 TRUSS HEAD | 6 | |
| SCREW FOR MOUNTING KINECT TO CAMERA MOUNTING PLATE | 257893 | SCREW,1/4-20 X .500",ZINC-PLATED STEEP PHILLIPS FLAT HEAD SCREWS | 1 | |

| TOOLS REQUIRED |
|--|
| 1/2" WRENCH |
| 1/2" SOCKET AND TORQUE WRENCH - OPTIONAL |
| 4MM ALLEN WRENCH (FOR CONFIRMATS) |
| 5MM ALLEN WRENCH (FOR JCN) |
| 5/32" ALLEN WRENCH (FOR 1/4"-20x1/2" SCREWS) |
| 1/8" ALLEN WRENCH (FOR #10-32x3/8" SCREWS) |
| PHILLIPS SCREWDRIVER |

| LAPTOP/PROJECTOR COMPONENTS |
|--|
| QTY (1) - KINECT V2 CAMERA (P# 257910-U) |
| QTY (1) - DIGITAL PROJECTOR (P# 252555) |
| QTY (1) - ACER LAPTOP (P# 257897) |
| QTY (1) - FLASH DRIVE W/ SET UP INSTRUCTIONS (P# 257896) |

NOTE:

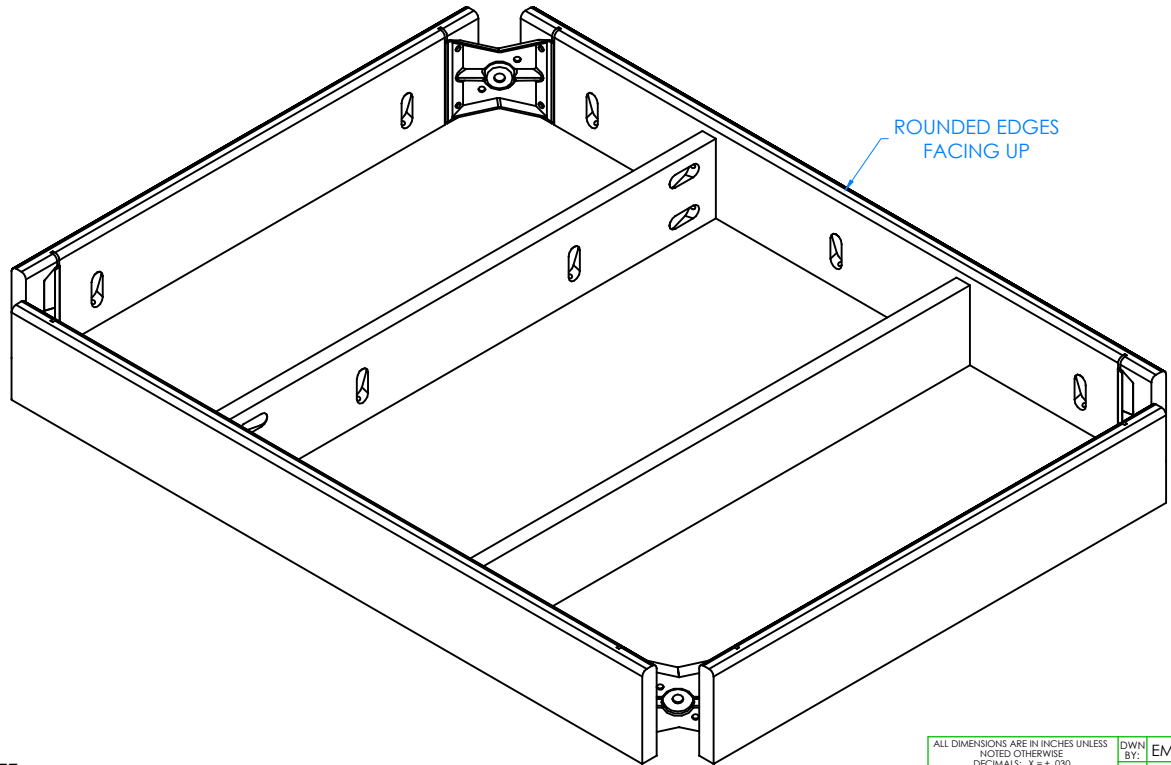
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| DRAWING NUMBER: ARS-4030 | SCALE: NTS | SHEET: 3 OF 19 | REVISION: REV A |



STEP 1:

- LAY APRON ASSEMBLY ON FLOOR WITH ROUNDED EDGES FACING UP.

NOTE:

1.

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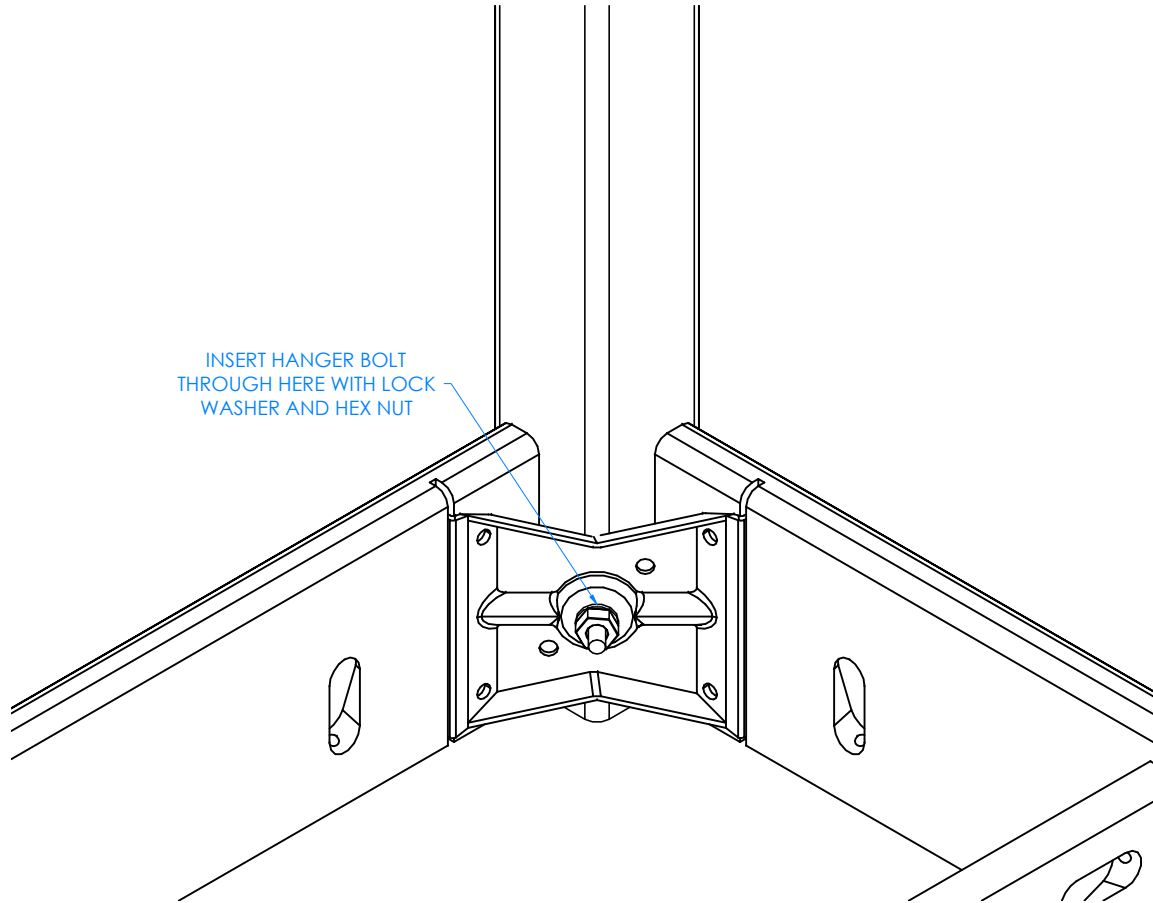


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 ASSEMBLY INSTRUCTIONS

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INSERT HANGER BOLT THROUGH HERE WITH LOCK WASHER AND HEX NUT

CLOSE UP OF CORNER LEG ASSEMBLY

STEP 2:

- INSERT HANGER BOLT ON ONE LEG THROUGH THE CORNER BRACKET.
- MAKE SURE THRU HOLES ON LEGS RUN PARALLEL TO THE LONG APRONS (SEE STEP 3 FOR CLOSE UP).
- INSERT LOCK WASHER AND HEX NUT.
- SCREW ON NUT USING A 1/2" WRENCH OR 1/2" SOCKET AND TORQUE WRENCH.
- DO NOT TIGHTEN ALL THE WAY.
- REPEAT FOR OTHER LEGS.

NOTE:

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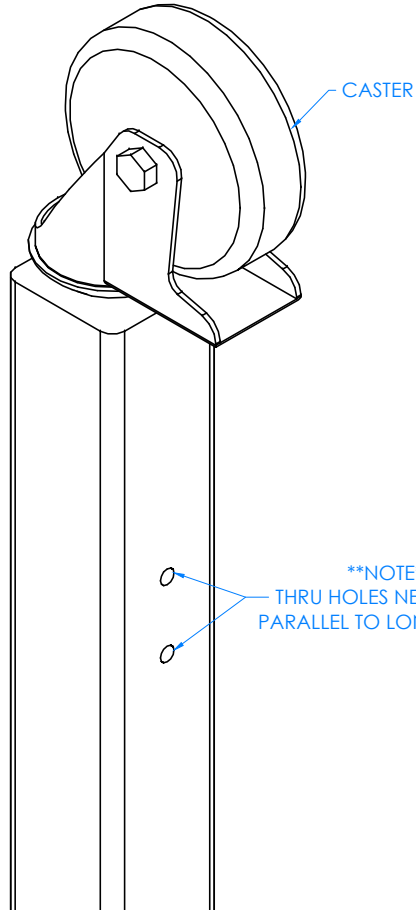
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STEP 3:

- ATTACH CASTERS TO BOTTOM OF LEGS.

CLOSE UP OF CASTER ASSEMBLY

NOTE:

- 1.

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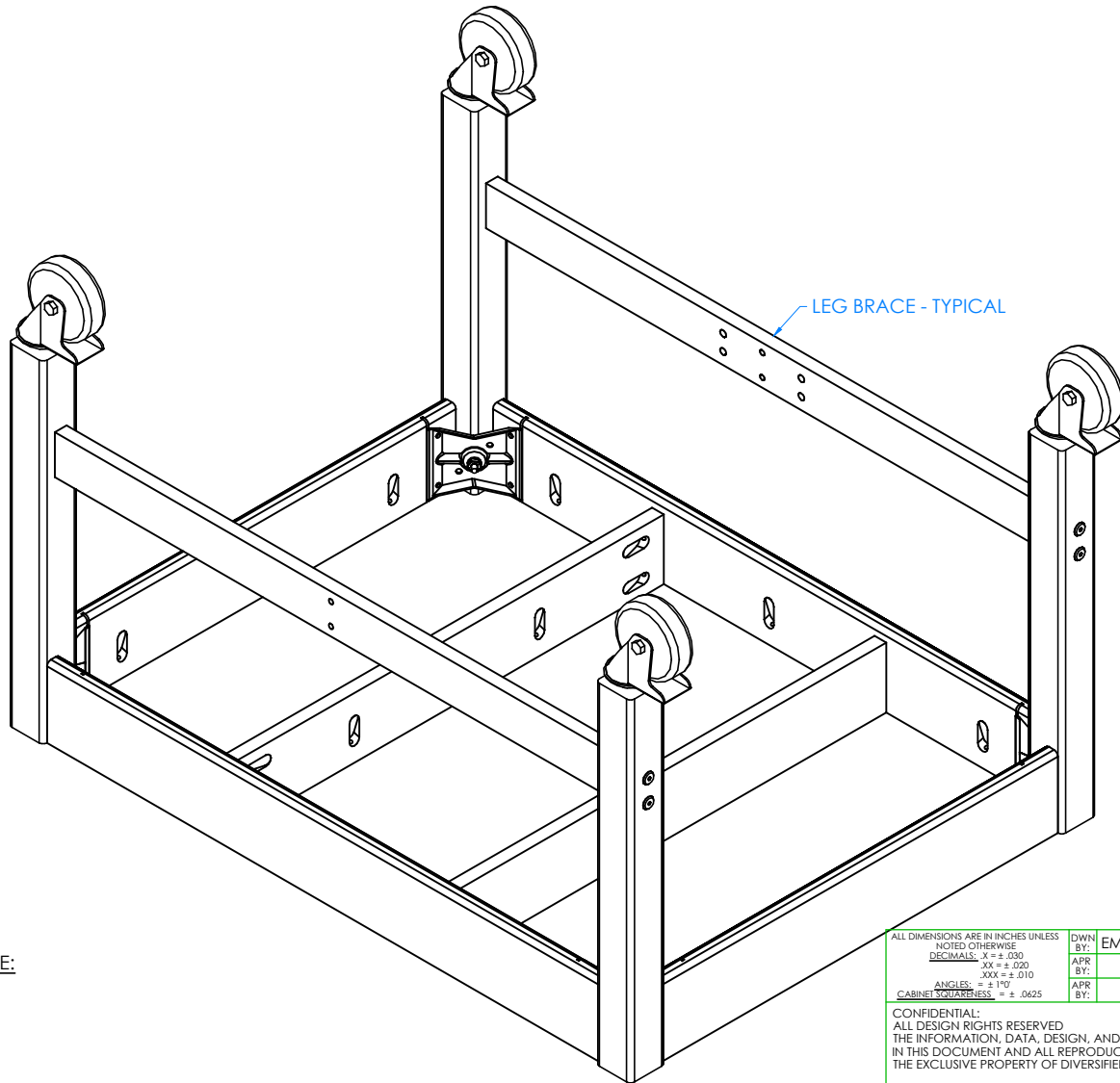


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STEP 4:

- ATTACH BRACES TO LEGS.
- INSERT THE CONFIRMATS INTO ONE LEG AND SCREW INTO BRACE.
- REPEAT ON OTHER LEGS.
- MAKE SURE BRACES ARE STRAIGHT AND ALL CONFIRMATS ARE TIGHT.


NOTE:

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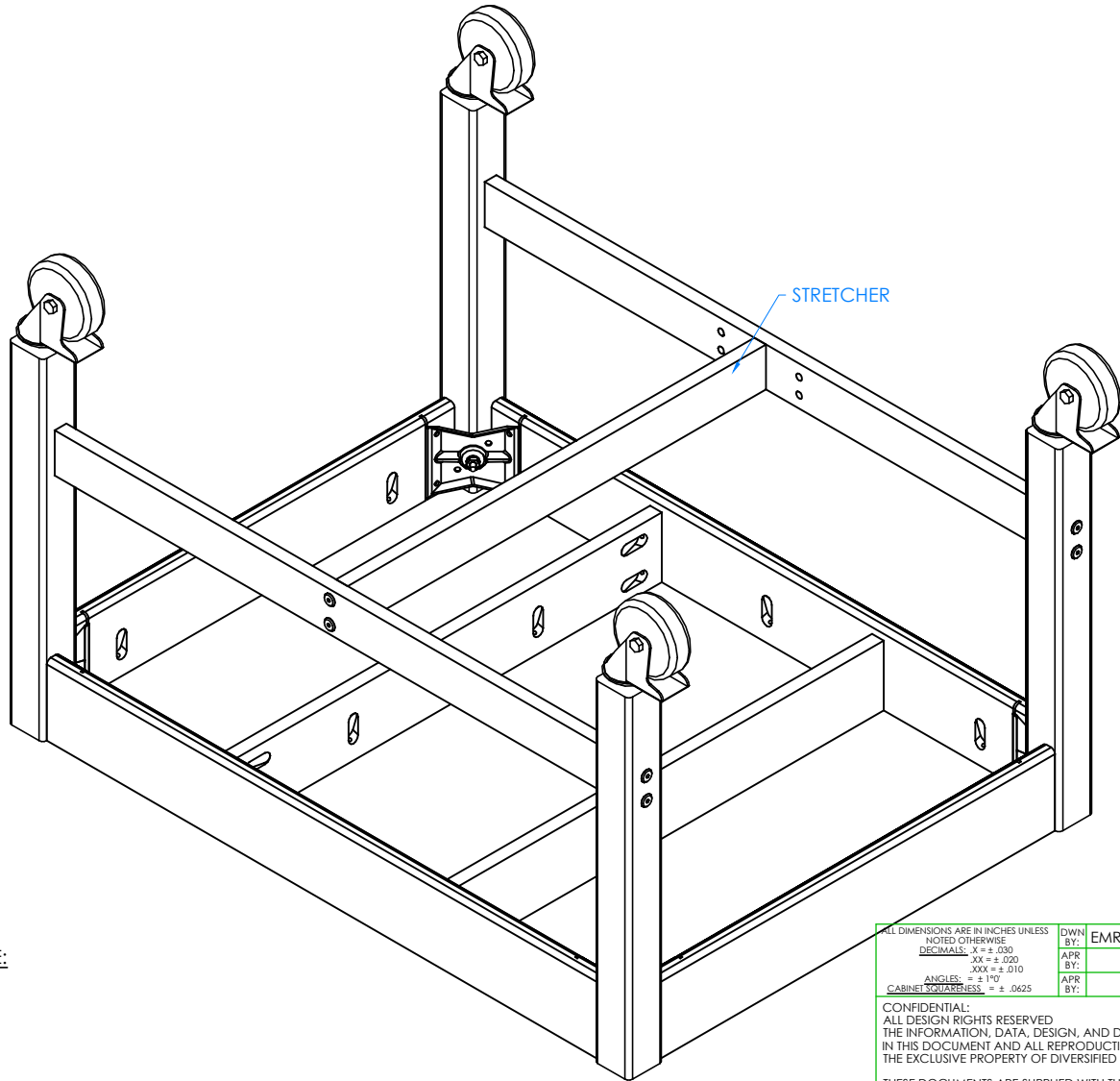


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STEP 5:

- INSERT STRETCHER TO CENTER OF BRACES.
- ATTACH STRETCH WITH HARDWARE PROVIDED.
- GO BACK TO STEP 2 AND TIGHTEN UP THE HANGER BOLTS FOR EACH LEG USING A 1/2" WRENCH OR 1/2" SOCKET AND TORQUE WRENCH, TO A MINIMUM OF 12FT LBS BUT NOT TO EXCEED 17FT LBS.

NOTE:

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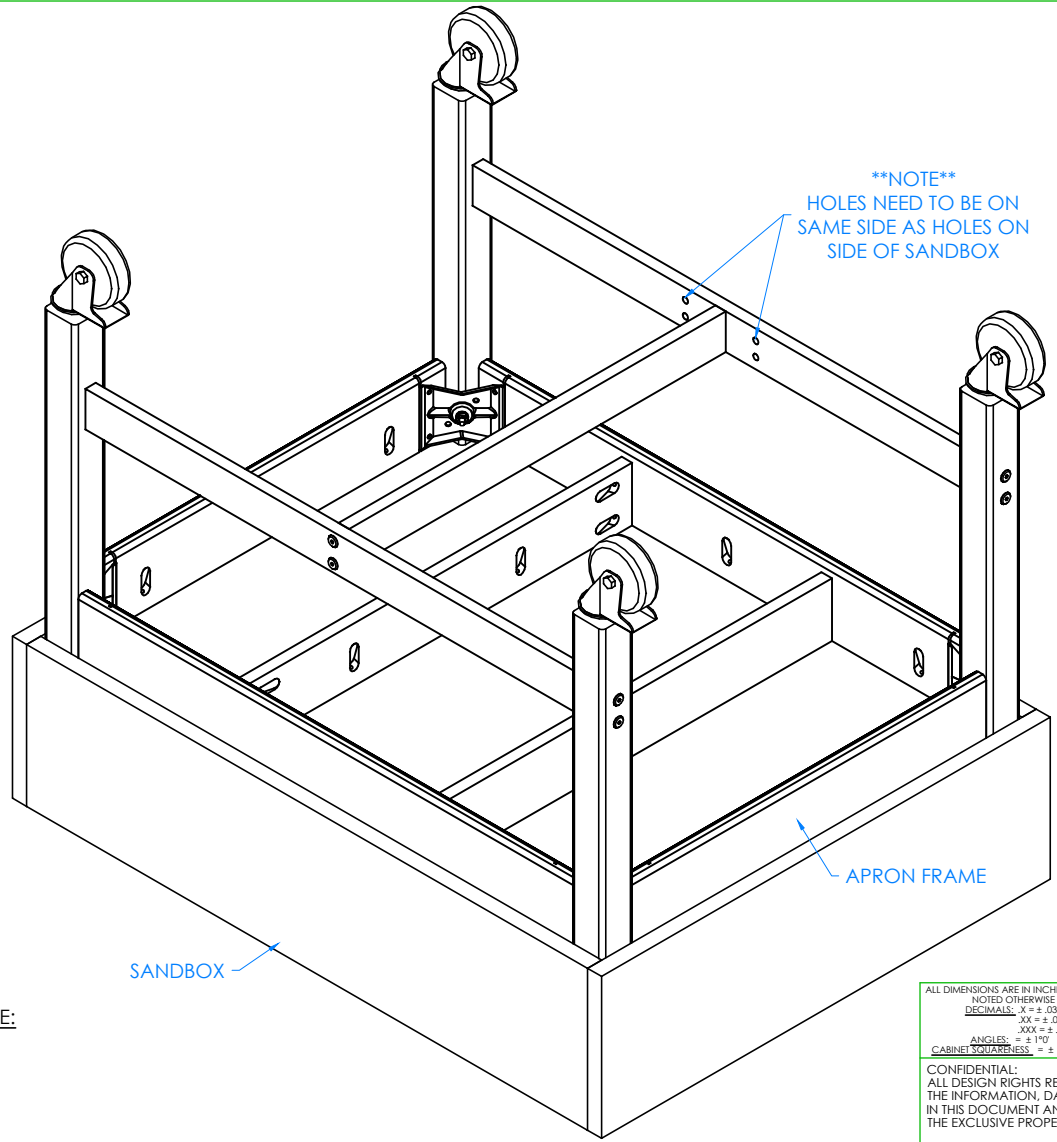


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****NOTE****
 HOLES NEED TO BE ON
 SAME SIDE AS HOLES ON
 SIDE OF SANDBOX

STEP 6:


- SET APRON FRAME ON TOP OF SANDBOX AND ATTACH TO SANDBOX WITH THE 14 - #8X1-3/4 QUAD RD WASH HD SCREWS PROVIDED.
- MAKE SURE THE 4 HOLES ON BRACES ARE ON SAME SIDE AS THE 4 HOLES ON SANDBOX (SEE PHOTO IN STEP 6).

NOTE:
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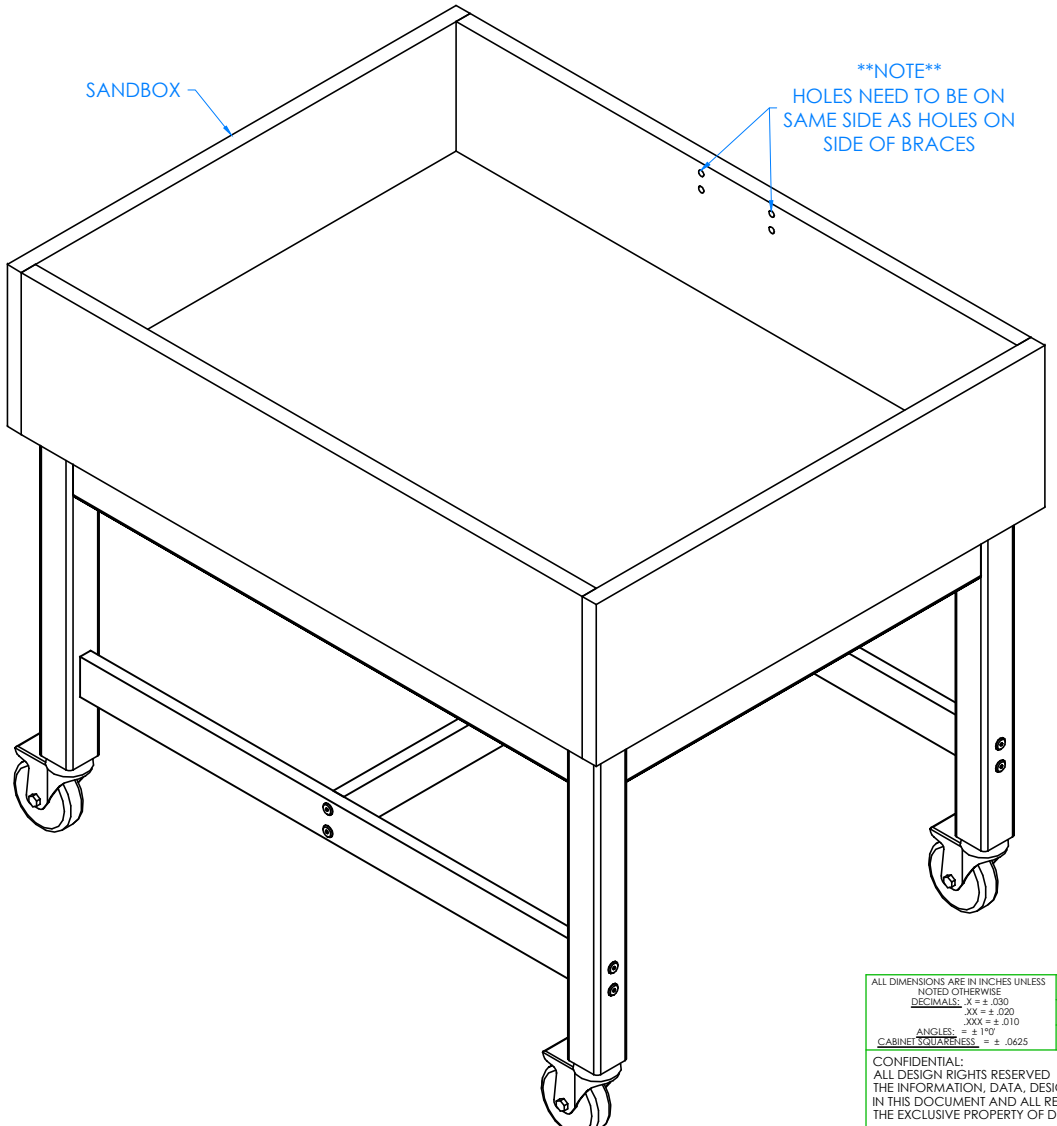


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NOTE:
1.

STEP 7:

- WITH HELP FROM ANOTHER PERSON, TURN UNIT OVER SO SANDBOX IS FACING UP.

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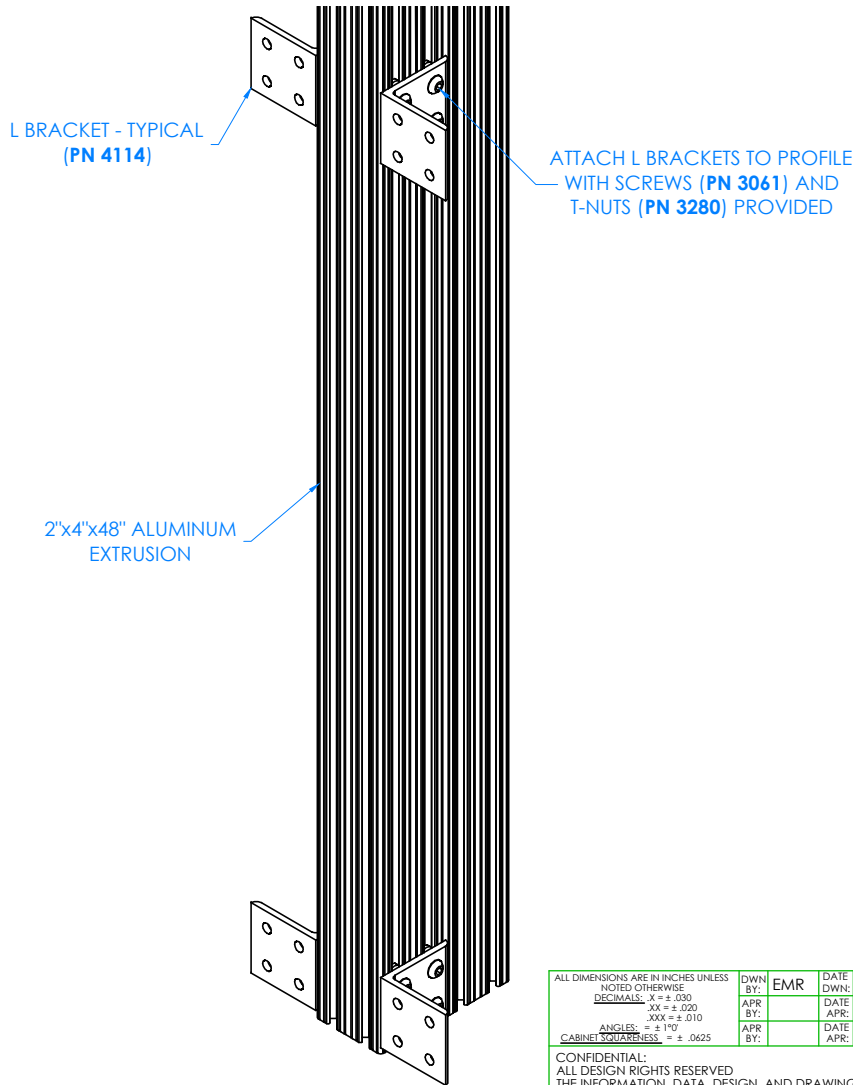


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CLOSE UP OF ALUMINUM EXTRUSION WITH L BRACKETS ATTACHED

STEP 8:

- SLIDE (2) L-BRACKETS ASSEMBLIES ONTO EACH SIDE OF THE 2"x4"x48" EXTRUSION.
- TOP BRACKETS CAN BE LEFT LOOSE FOR NOW.
- POSITION BOTTOM BRACKETS SO THEY ARE FLUSH WITH BOTTOM OF ALUMINUM EXTRUSION
- TIGHTEN BRACKETS TO EXTRUSION.

NOTE:

1.

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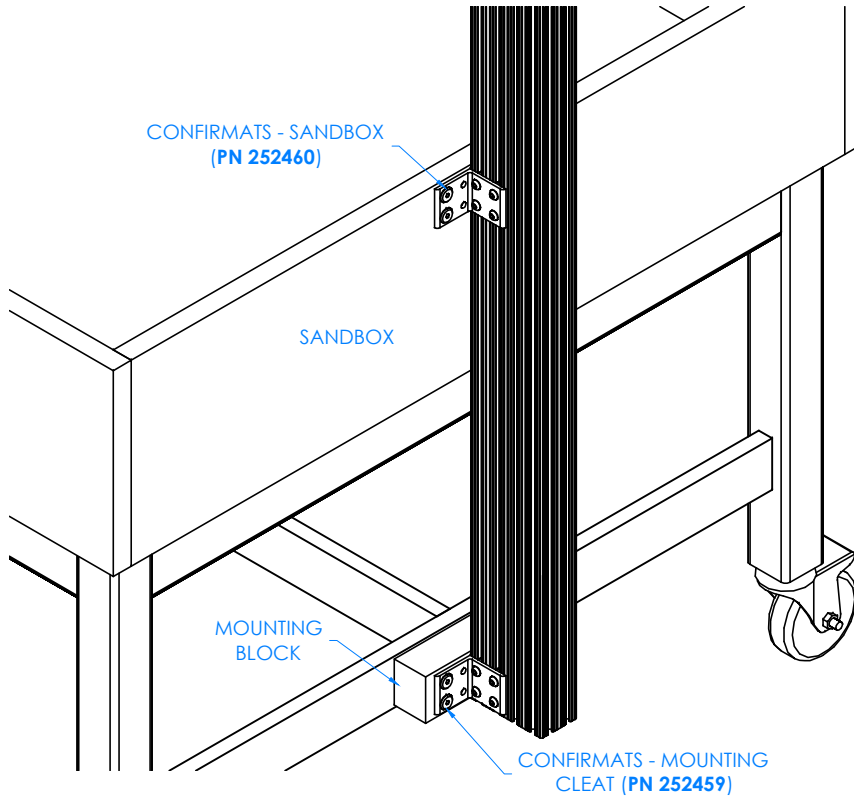
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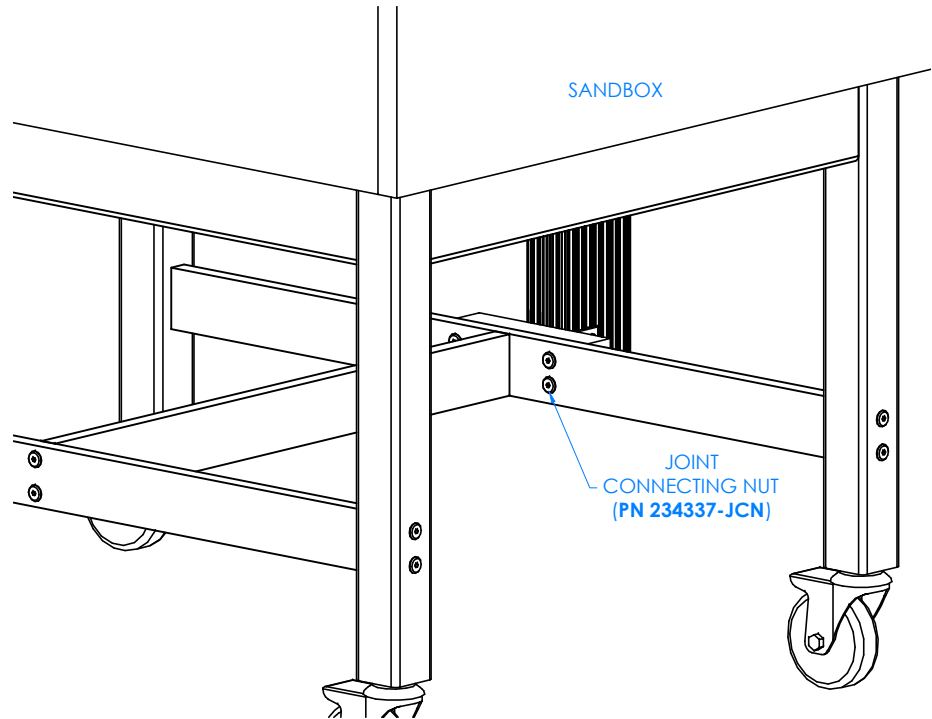
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STEP 9:

- ATTACH ALUMINUM EXTRUSION ASSEMBLY 1 TO SANDBOX AND MOUNTING BLOCK.
- POSITION L-BRACKETS TO HOLES ON TOP OF SANDBOX AND TO HOLES ON MOUNTING BLOCK.
- ATTACH L-BRACKETS BY INSERTING CONFIRMATS ON OUTSIDE OF SANDBOX AND MOUNTING BLOCK AND THE JOINT CONNECTING NUT ON INSIDE.
- TIGHTEN CONFIRMATS AND THEN TIGHTEN TOP L-BRACKET SCREWS.



OUTSIDE OF SANDBOX ASSEMBLY SHOWN




INSIDE OF SANDBOX ASSEMBLY SHOWN

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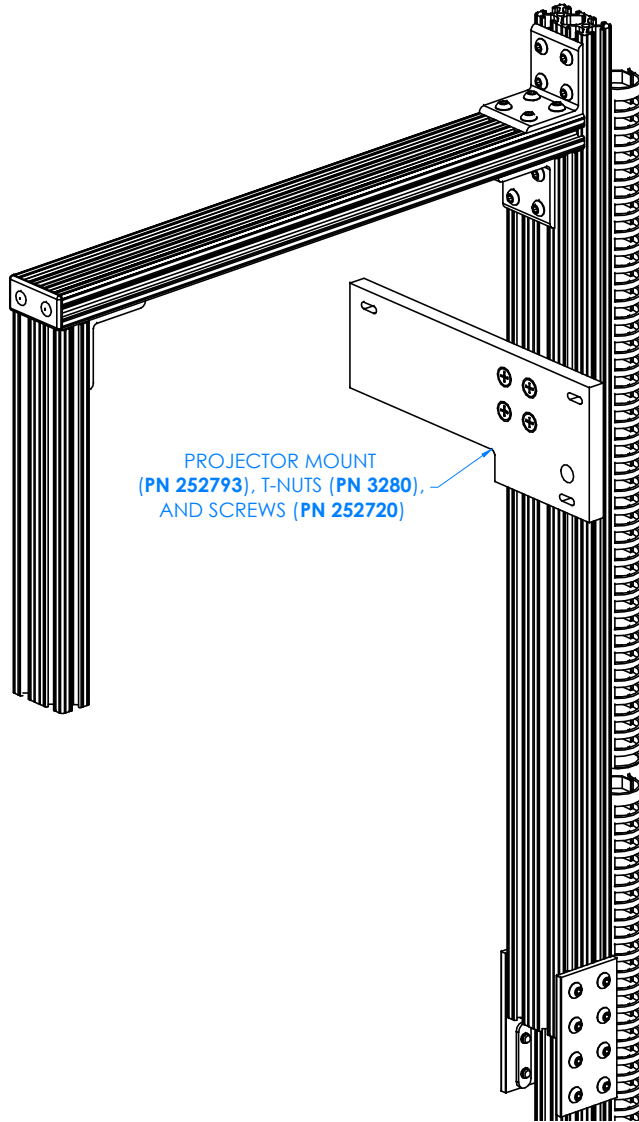
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STEP 10:

- SLIDE PROJECTOR MOUNTING BLOCK ONTO ALUMINUM EXTRUSION ASSEMBLY (BUILT IN THE PREVIOUS SET OF INSTRUCTIONS) FROM BOTTOM.
- ATTACH WITH HARDWARE PROVIDED.
- DO NOT TIGHTEN ALL THE WAY.

NOTE:

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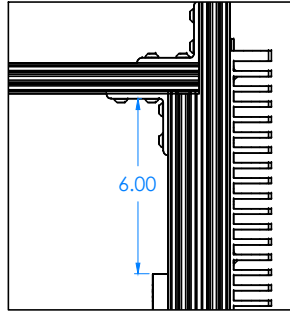
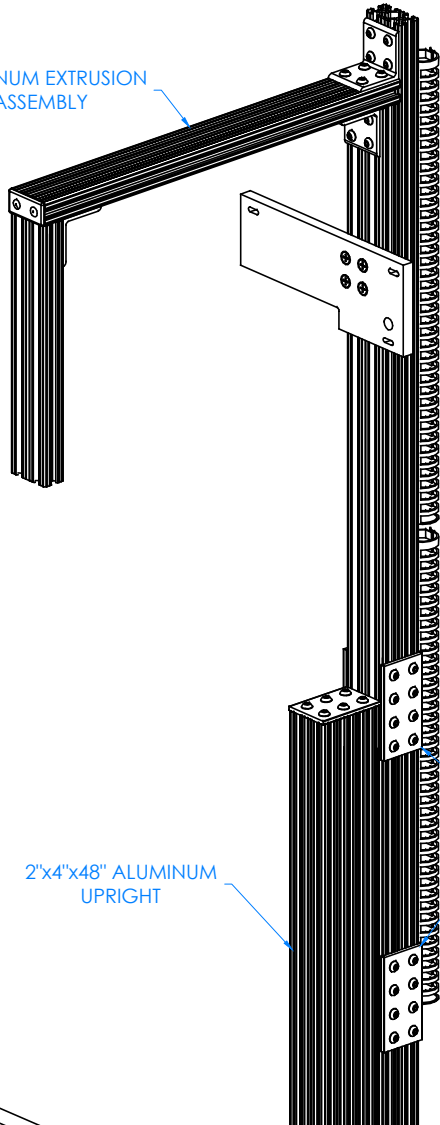
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ALUMINUM EXTRUSION ASSEMBLY



TIGHTEN ASSEMBLIES
HERE (BOTH SIDES)

2"x4"x48" ALUMINUM
UPRIGHT


STEP 11:

- SLIDE ALUMINUM EXTRUSION ASSEMBLY ONTO THE 2"x4"x48" ALUMINUM UPRIGHT .
- TIGHTEN ASSEMBLIES TOGETHER.
- MAKE SURE ALL SCREWS ARE TIGHT BEFORE MOVING ON.
- GO BACK TO STEP 10 AND TIGHTEN PROJECTOR MOUNTING BLOCK ONTO ALUMINUM EXTRUSION ASSEMBLY 2.
- MAKE SURE TOP OF MOUNT SITS 6" FROM THE BOTTOM OF CORNER L-BRACKET.
- FINAL DIMENSION WILL BE ADJUSTED ONCE CAMERA AND PROJECTOR ARE MOUNTED IN STEP 14.

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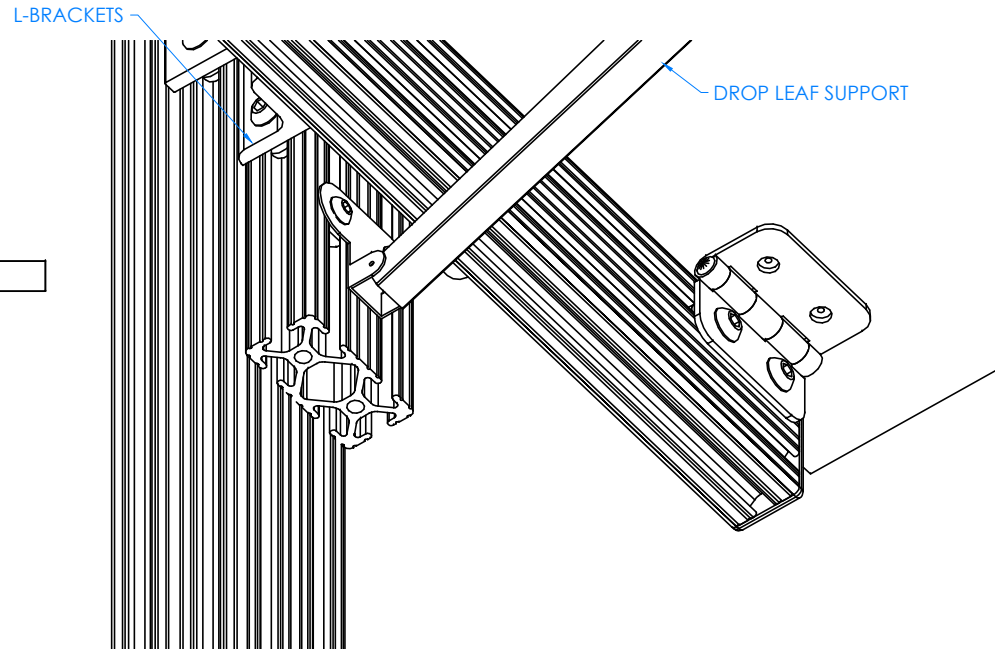
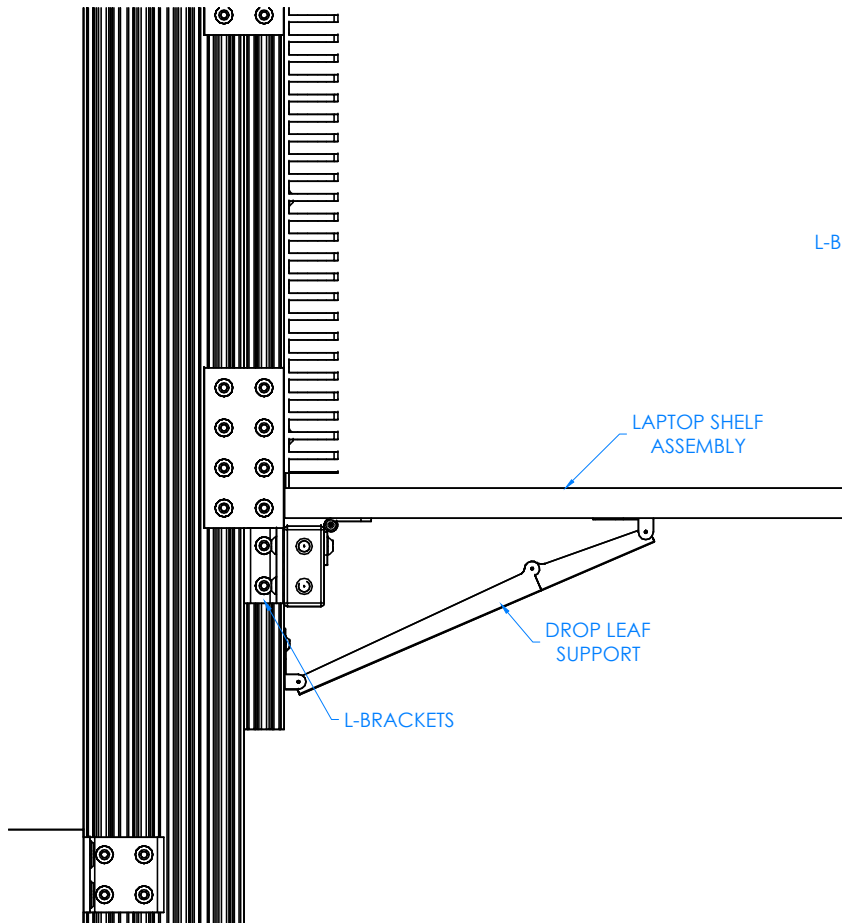
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STEP 12:

- SLIDE LAPTOP SHELF L-BRACKETS UP THE SIDES OF THE T-SLOTTED PROFILE UNTIL THEY ARE TIGHT TO THE 8-HOLE FLAT PLATE.
- TIGHTEN SCREWS.
- SLIDE BOTTOM END OF THE DROP LEAF SUPPORT UP THE FACE OF THE T-SLOTTED PROFILE, GUIDING ATTACHED T-NUTS INTO GROOVES.
- FULLY ENGAGE DROP LEAF AND RAISE IT UP UNTIL SHELF IS SITTING PARALLEL TO FLOOR.
- TIGHTEN SCREWS TO SECURE IT IN PLACE.



UNDERSIDE OF DROP LEAF SHOWN

NOTE:

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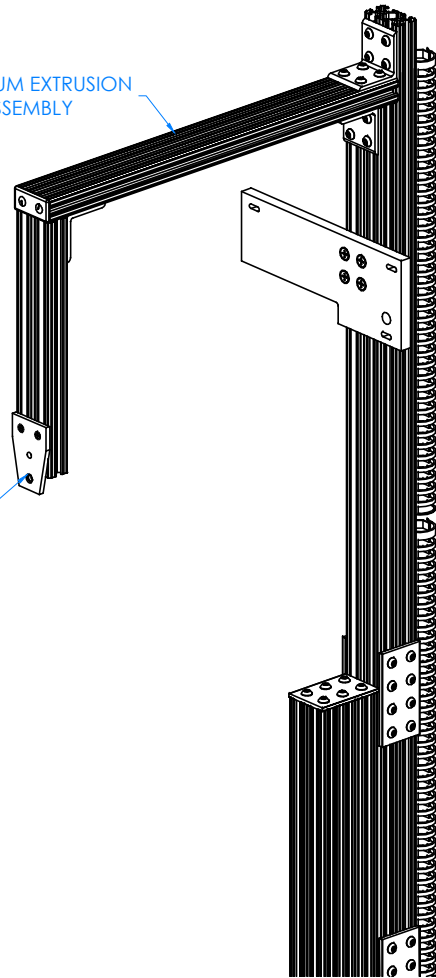
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ALUMINUM EXTRUSION ASSEMBLY

CAMERA MOUNT PLATE (PN 4141), MOUNTING SCREWS FOR EXTRUSION (PN 3321), KINECT MOUNTING SCREW (PN *257893* SEE NOTE 2)



STEP 13:

- SLIDE CAMERA MOUNT UP ONTO ALUMINUM EXTRUSION ASSEMBLY, GUIDING THE T-NUTS INTO THE SLOTS.
- SLIDE IT UP UNTIL BOTTOM LIP OF MOUNT IS AGAINST THE ALUMINUM.
- TIGHTEN SCREWS.

NOTE:

1. ELECTRONIC COMPONENTS NOT SHOWN.
2. T-NUTS COME AS AN ASSEMBLY WITH SCREWS ALREADY ATTACHED, THEY ARE NOT NEEDED AND CAN BE DISCARDED. USE SCREWS LISTED WITH THIS STEP.

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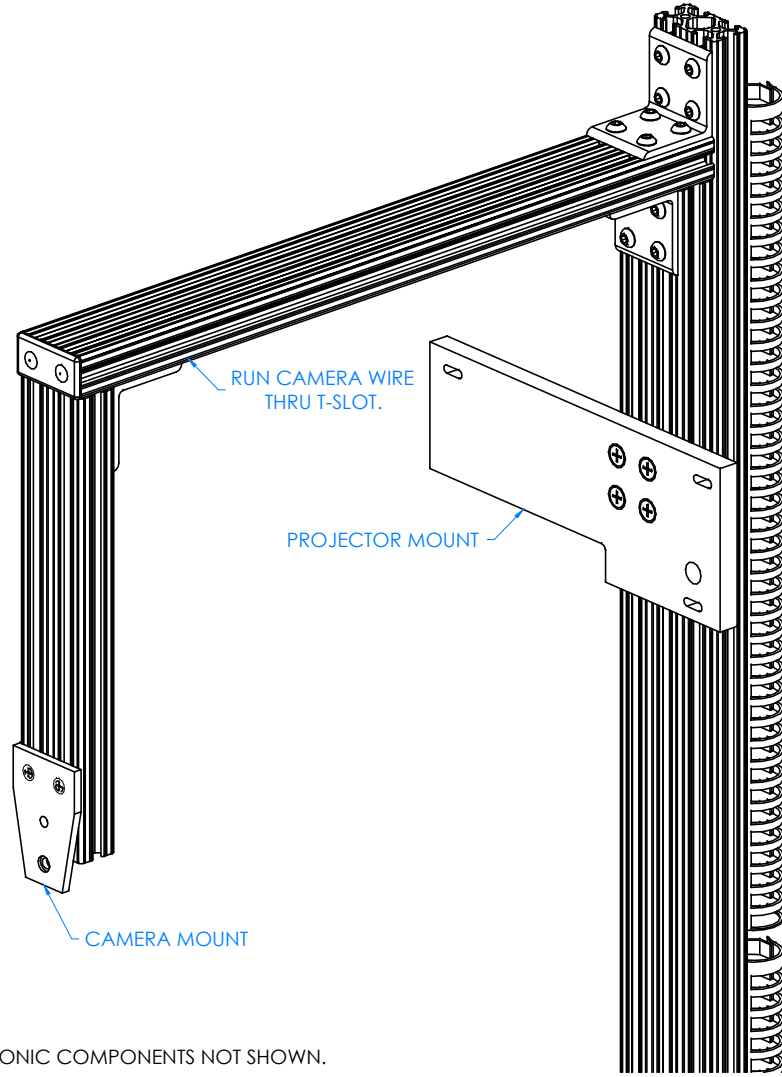
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STEP 14:

- PLUG IN WIRES TO PROJECTOR PRIOR TO MOUNTING IF APPLICABLE - SEE SHEET 19 ON THE WIRING DIAGRAM.
- LINE PROJECTOR UP WITH THE (3) MOUNTING HOLES IN BRACKET AND ATTACH USING THE (3) SCREWS (PN 252719) PROVIDED.
- SNUG THE SCREWS AND MAKE SURE PROJECTOR IS AS PARALLEL TO SANDBOX AS POSSIBLE AND TIGHTEN.
- BOLT KINECT 3D CAMERA ONTO CAMERA MOUNT.
- DOUBLE CHECK TO MAKE SURE LENS ON PROJECTOR IS IN LINE WITH THE KINECT CAMERA, IF NOT ADJUST PROJECTOR MOUNTING BLOCK UP OR DOWN AS NEEDED AND RE-MOUNT PROJECTOR.
- KINECT CABLE CAN BE RUN INSIDE THE T-SLOT ON SIDE OR TOP OF ALUMINUM OR.

NOTE:

1. ELECTRONIC COMPONENTS NOT SHOWN.

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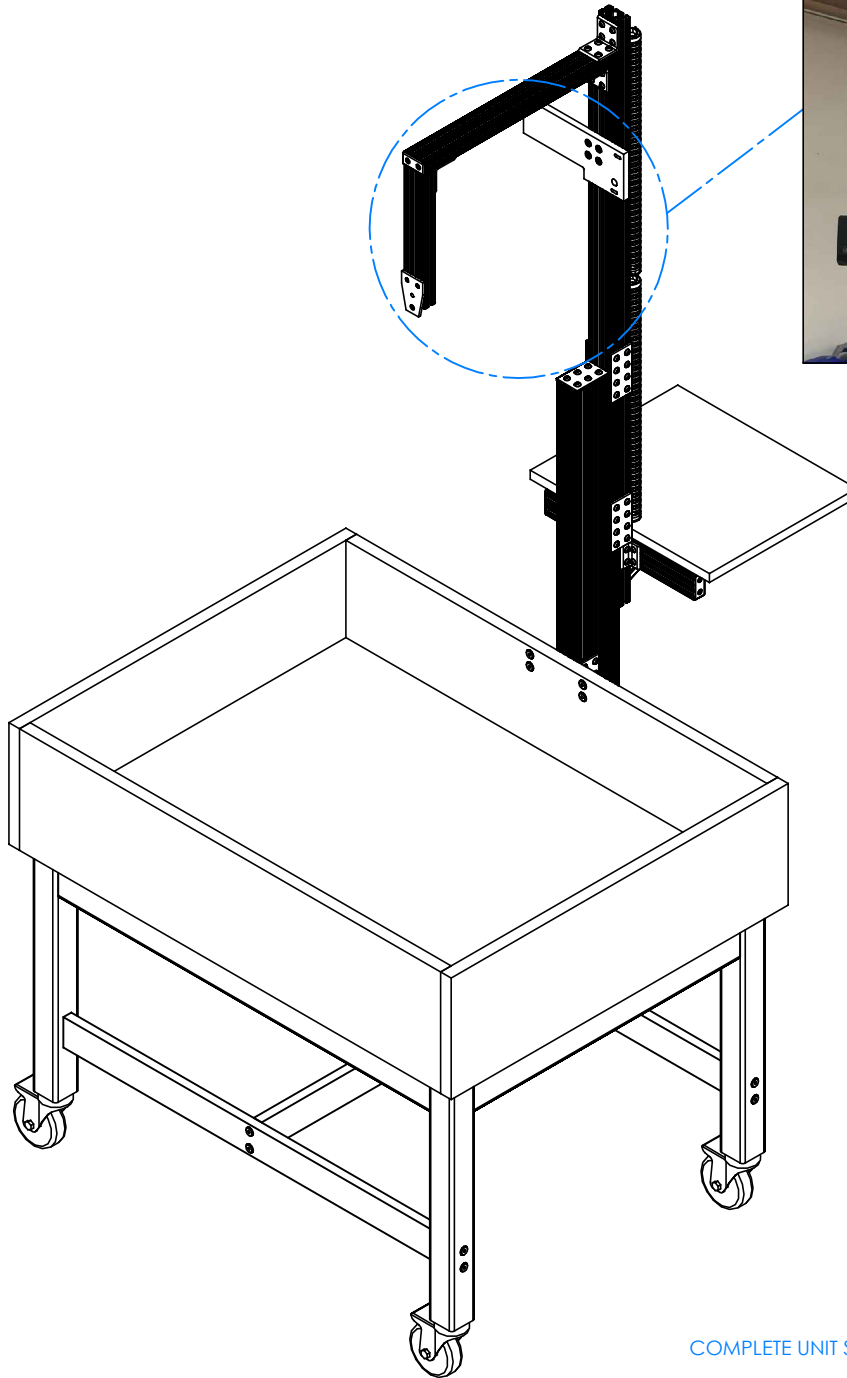
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STEP 15:

- YOUR AUGMENTED REALITY SANDBOX IS NOW ASSEMBLED.
- WE RECOMMEND USING SANDTASTIK THERAPY SAND BUT ANY DRY, WHITE SAND WILL WORK - IT WILL TAKE 200-250LBS.
- SAND SHOULD BE FILLED AT LEAST HALFWAY UP THE BOX.
- SETUP AND CALIBRATE LAPTOP AND PROJECTOR BY PLUGGING IN ELECTRONIC COMPONENTS AND CONNECTING FLASH DRIVE TO IT - FURTHER INSTRUCTIONS WILL FOLLOW.
- PROCEED WITH THE SETUP - SEE SHEET 19 FOR WIRE DIAGRAM.



COMPLETE UNIT SHOWN

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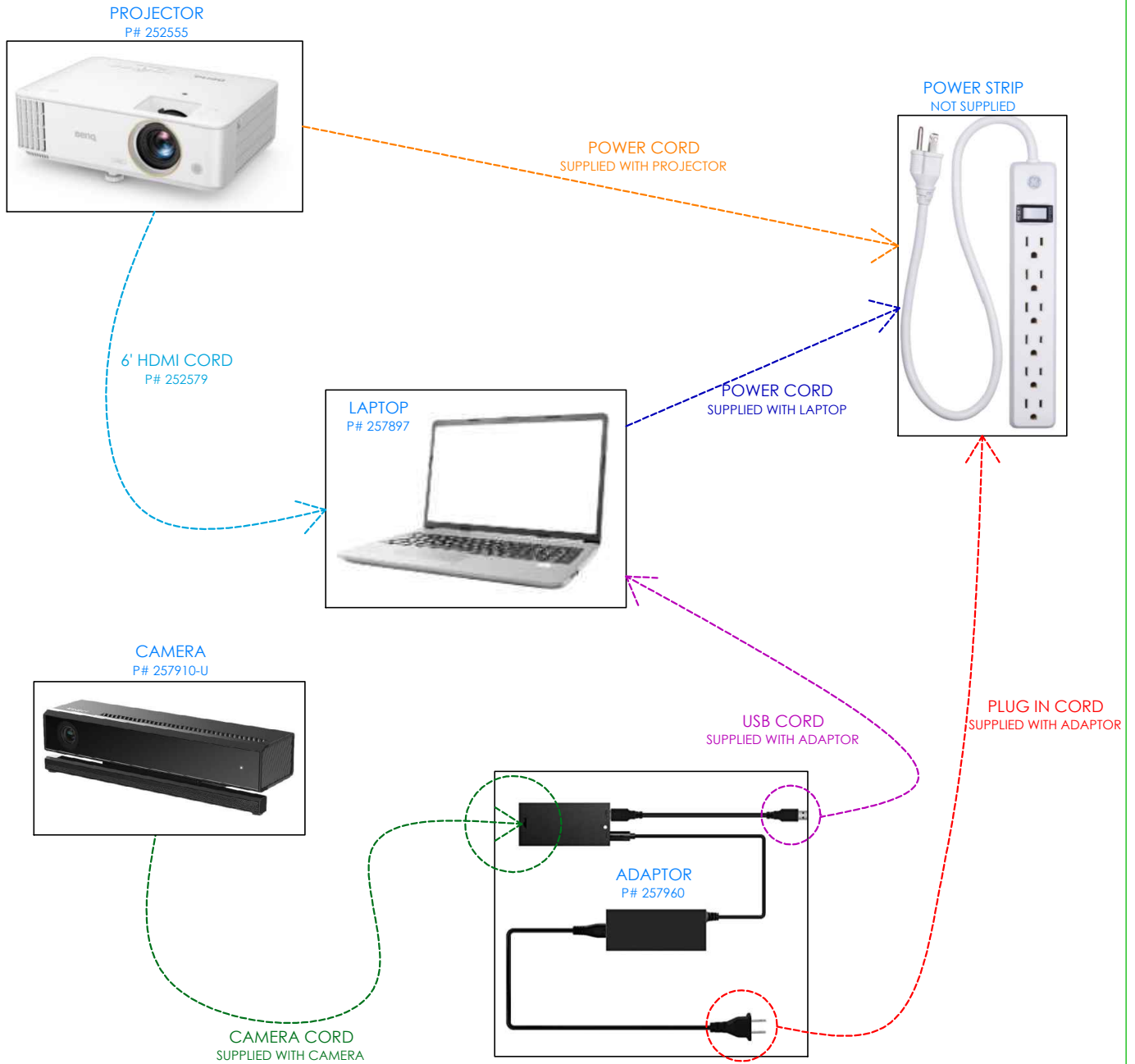
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WIRING DIAGRAM



NOTE:

- IMAGES MAY NOT REPRESENT EXACT MODELS PURCHASED - THIS IS JUST A VISUAL.**

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