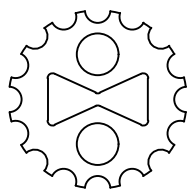
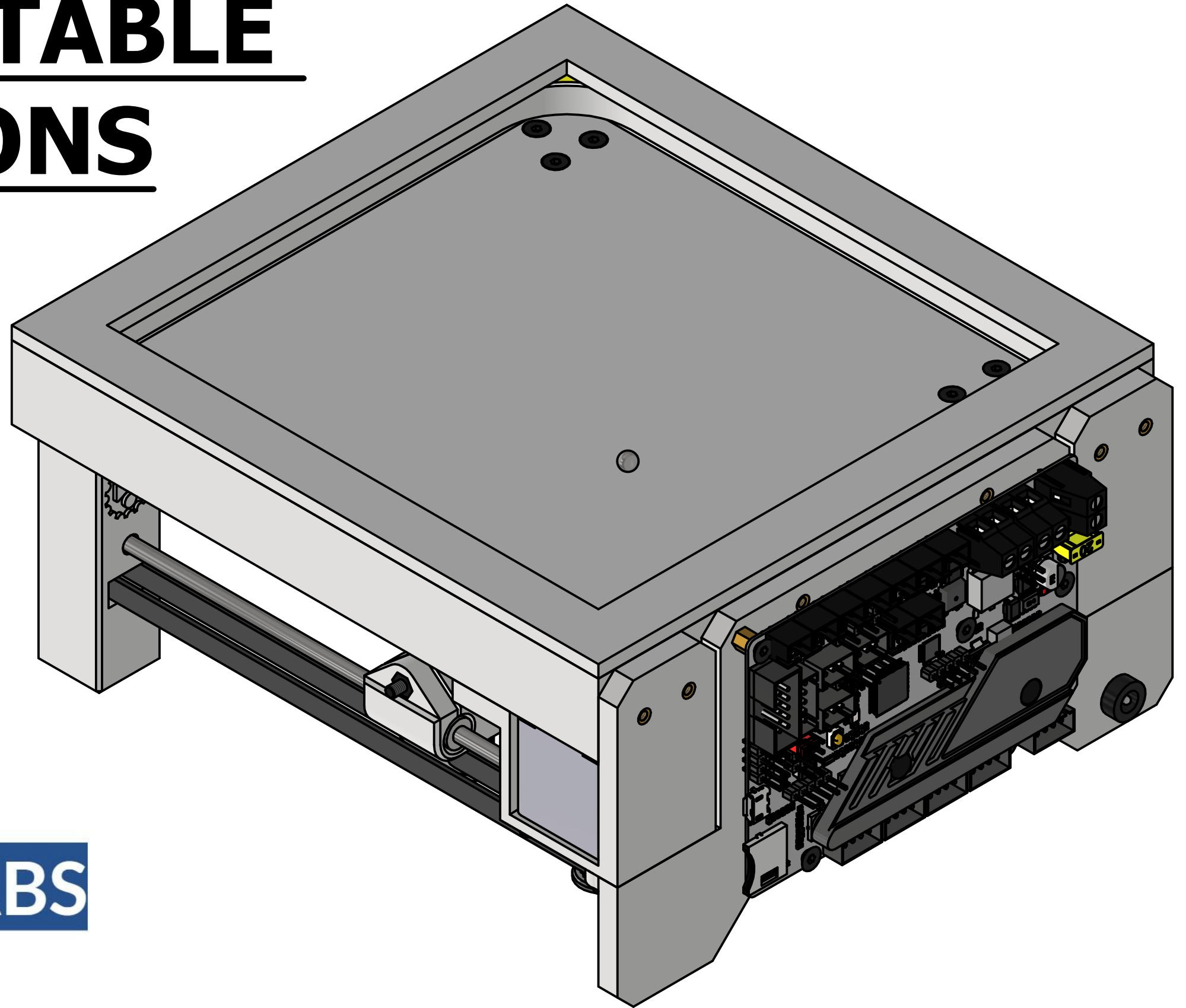


MINI SAND TABLE INSTRUCTIONS

CREATED BY OZZMEDIA LABS



Ozzmedia LABS

STEP 1

Using soldering iron melt in heat set inserts until flush with the outer surface

M3 Heat Set Inserts
2x

LM4UU
2x

Slide in 2x LM4UU linear bearings flush with the outer surface

XY Joiner

M3 x 16mm FHCS

TIGHTEN SCREW ONLY ENOUGH TO HOLD NUT IN PLACE

INSERT BEARING CLAMP SCREW BEFORE ROD CLAMP SCREW

M3 Hex Nut

M3 x 16mm FHCS

TIGHTEN SCREW SO THE LINEAR BEARINGS (LM4UU) CAN NOT MOVE

NOTE: BUILD 2X OF THESE XY JOINER ASSEMBLIES

STEP 2

4mm x 130mm Rod

PRESS 2X LINEAR ROD (4MM X 130MM) FULLY INTO THE BLOCK
TIGHTEN THE M3 X 16MM SCREW TO LOCK THE RODS IN PLACE

Belt Retainer

M3 x 10mm FHCS
2x

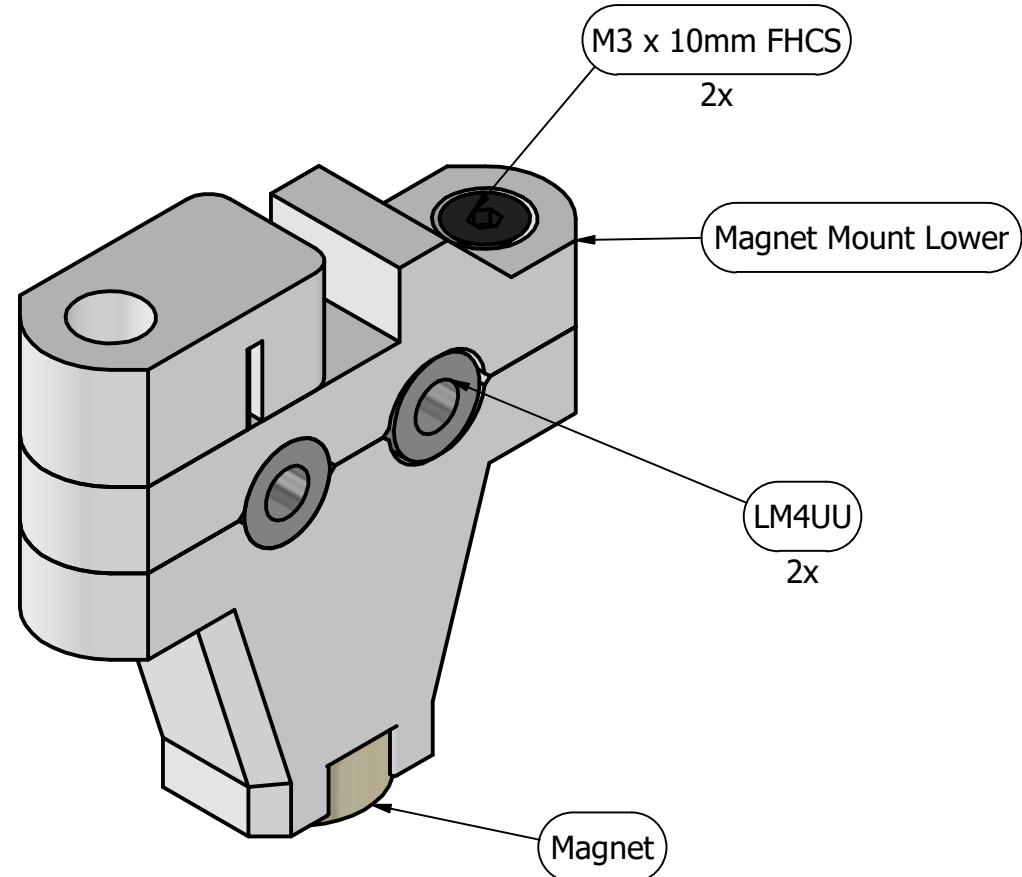
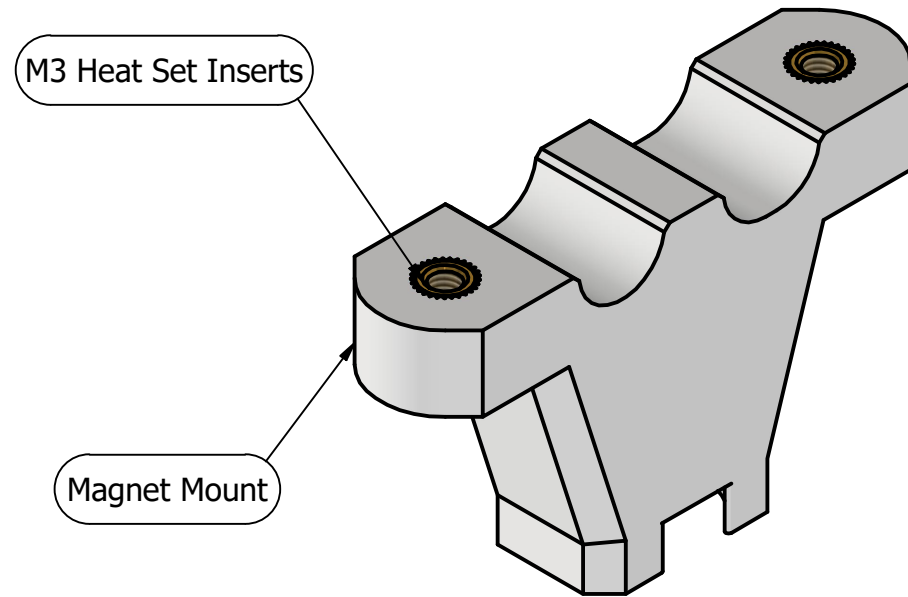
ATTACH THE ROLLER BEARINGS (603ZZ) AND BELT RETAINER TO **ONE** OF THE XY JOINER ASSEMBLIES

603ZZ Roller Bearing
2x

NOTE: LEAVE THE SECOND XY JOINER ASSEMBLY OFF FOR NOW

STEP 3

USING SOLDERING IRON
MELT IN HEAT SET INSERTS
UNTIL FLUSH WITH THE
OUTER SURFACE



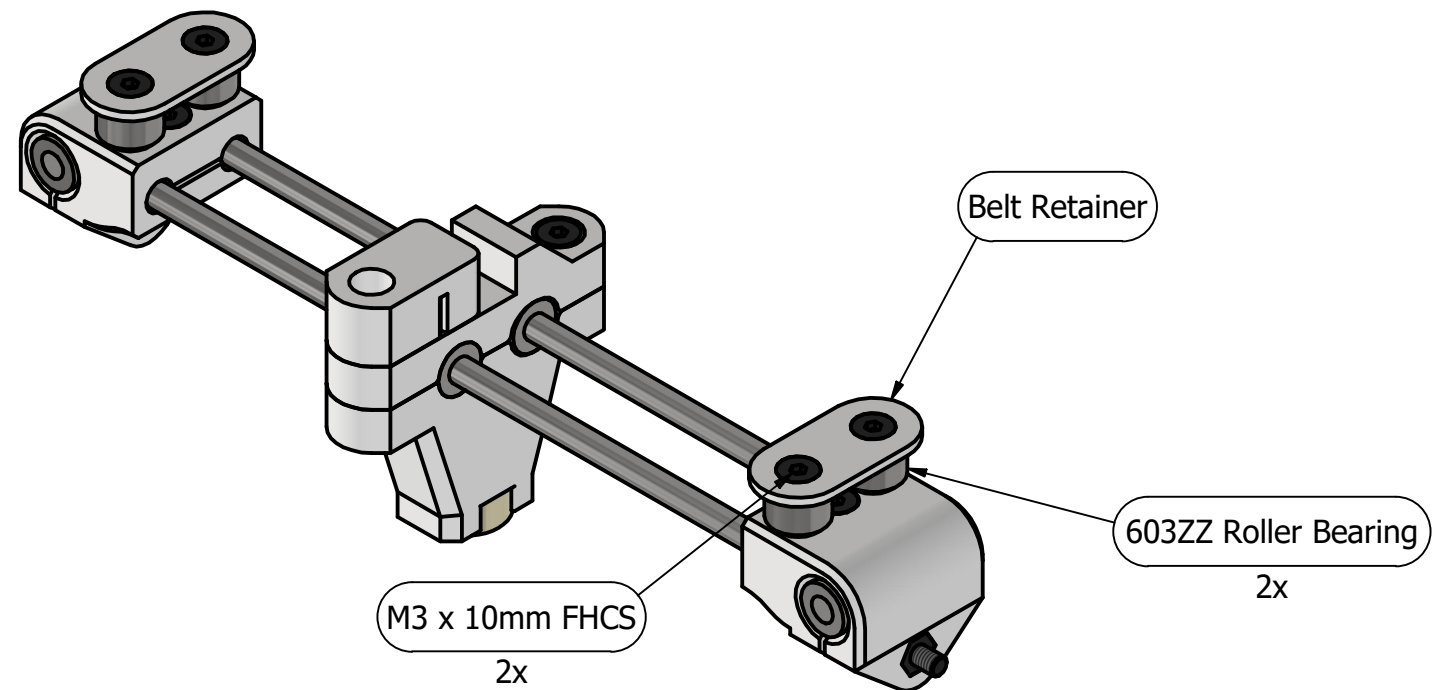
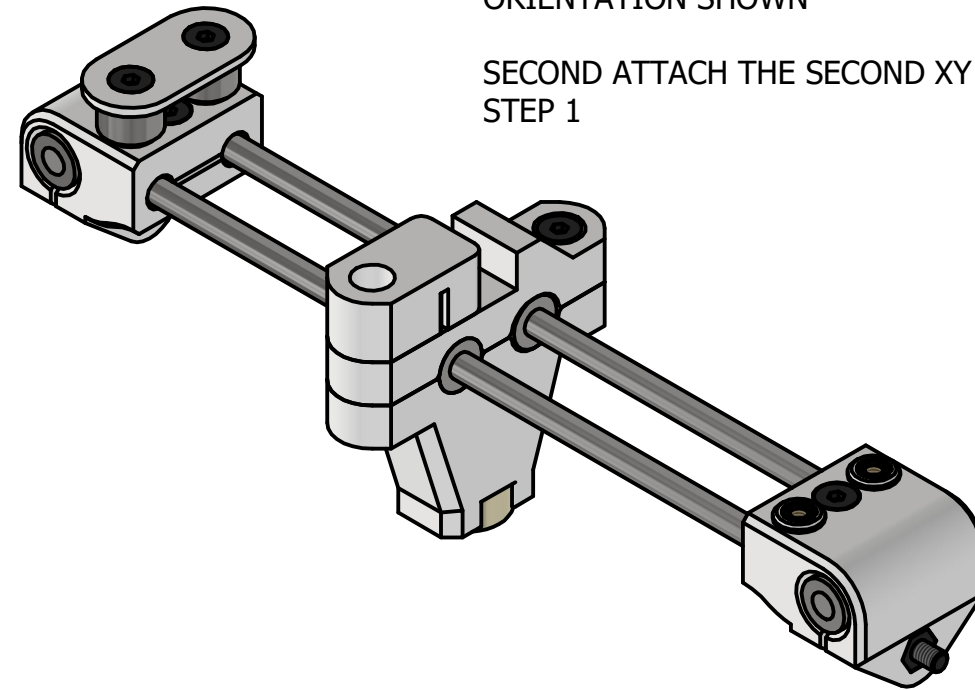
STEP 4

FIRST SLIDE THE CENTER MAGNET HOLDER
ASSEMBLY ONTO THE RODS IN THE
ORIENTATION SHOWN

SECOND ATTACH THE SECOND XY JOINER FROM
STEP 1

TIGHTEN THE M3 X 16MM SCREW
TILL SNUG, THEN A HALF TURN
MORE

THE XY JOINER SHOULD BE ABLE TO
SLIDE IN AND OUT WITH
SIGNIFICANT RESISTANCE



STEP 5

USING SOLDERING IRON
MELT IN HEAT SET INSERTS
UNTIL FLUSH WITH THE
OUTER SURFACE

M3 Heat Set Inserts

3x

Idle Bearing Mount

STEP 5-1

M3 x 25mm SHCS

603ZZ Roller Bearing

Slide M3 nut into slot

M3 Nut

STEP 5-2

PRESS LINEAR ROD (4MM X 140MM)
FULLY INTO BLOCK

4mm x 140mm Rod

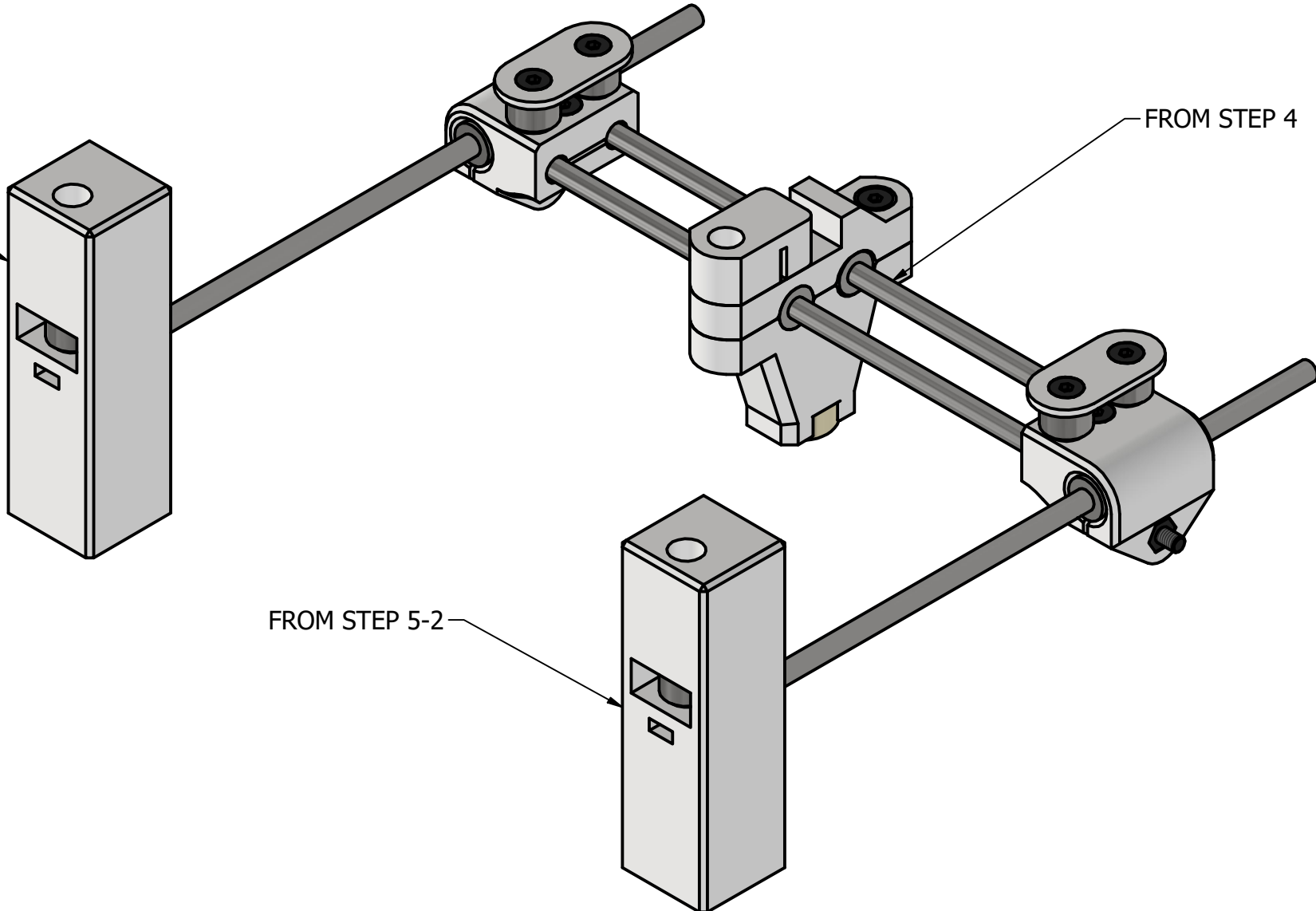
NOTE: BUILD 2X OF THESE IDLE BEARING MOUNT ASSEMBLIES

STEP 6

FROM STEP 5-2

FROM STEP 4

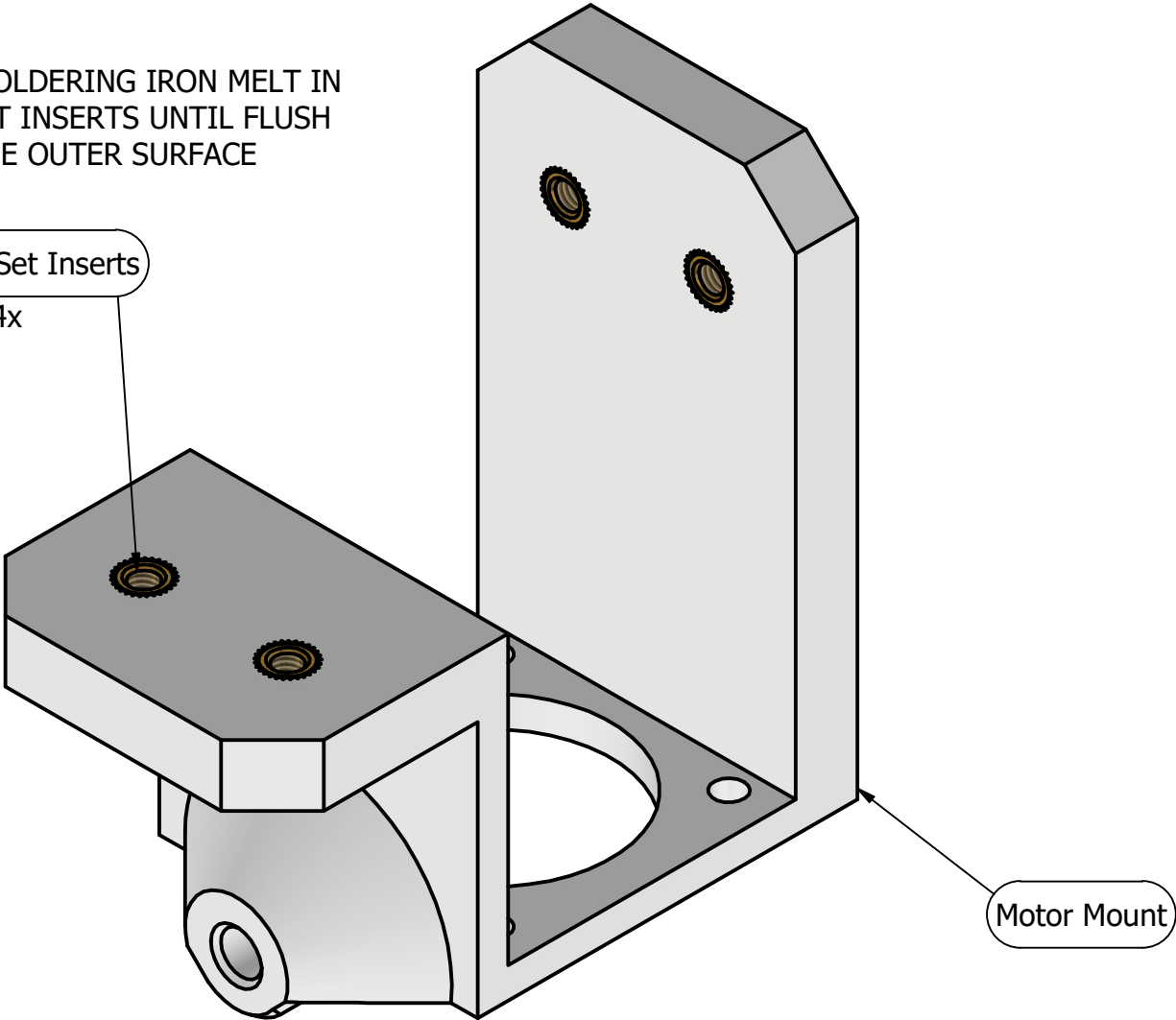
FROM STEP 5-2



STEP 7

USING SOLDERING IRON MELT IN
HEAT SET INSERTS UNTIL FLUSH
WITH THE OUTER SURFACE

M3 Heat Set Inserts
4x



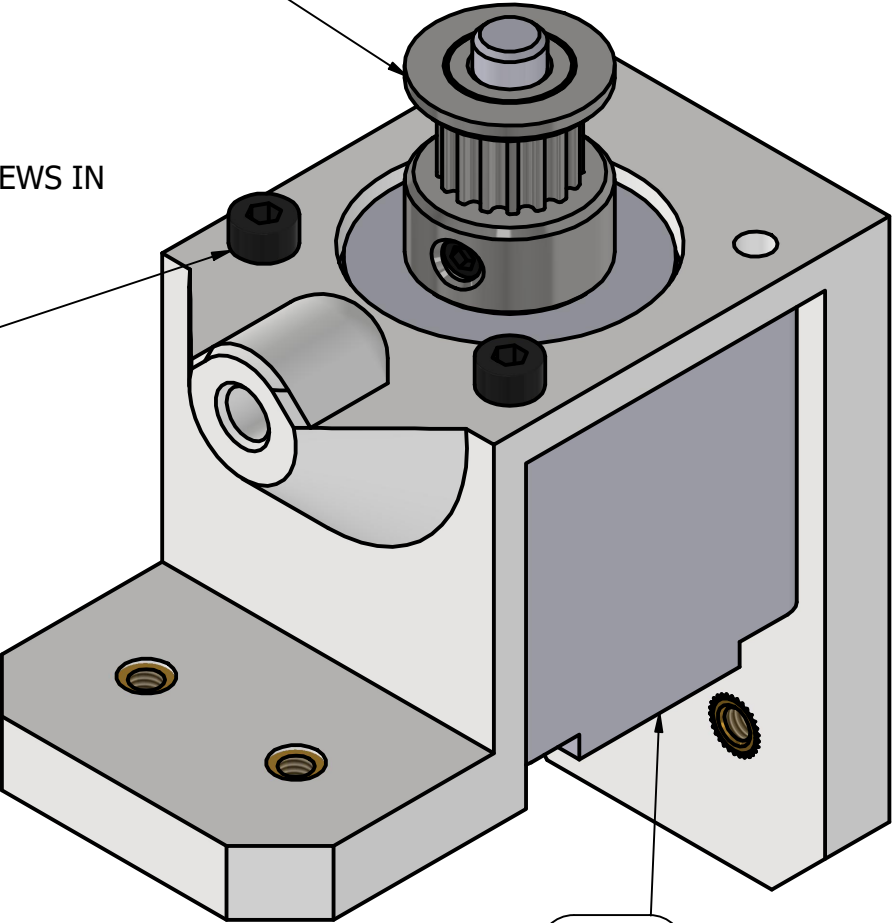
STEP 7-1

ATTACH MOTOR WITH SCREWS IN
ONLY THE FRONT HOLES

M2.5 x 6mm SHCS
2x

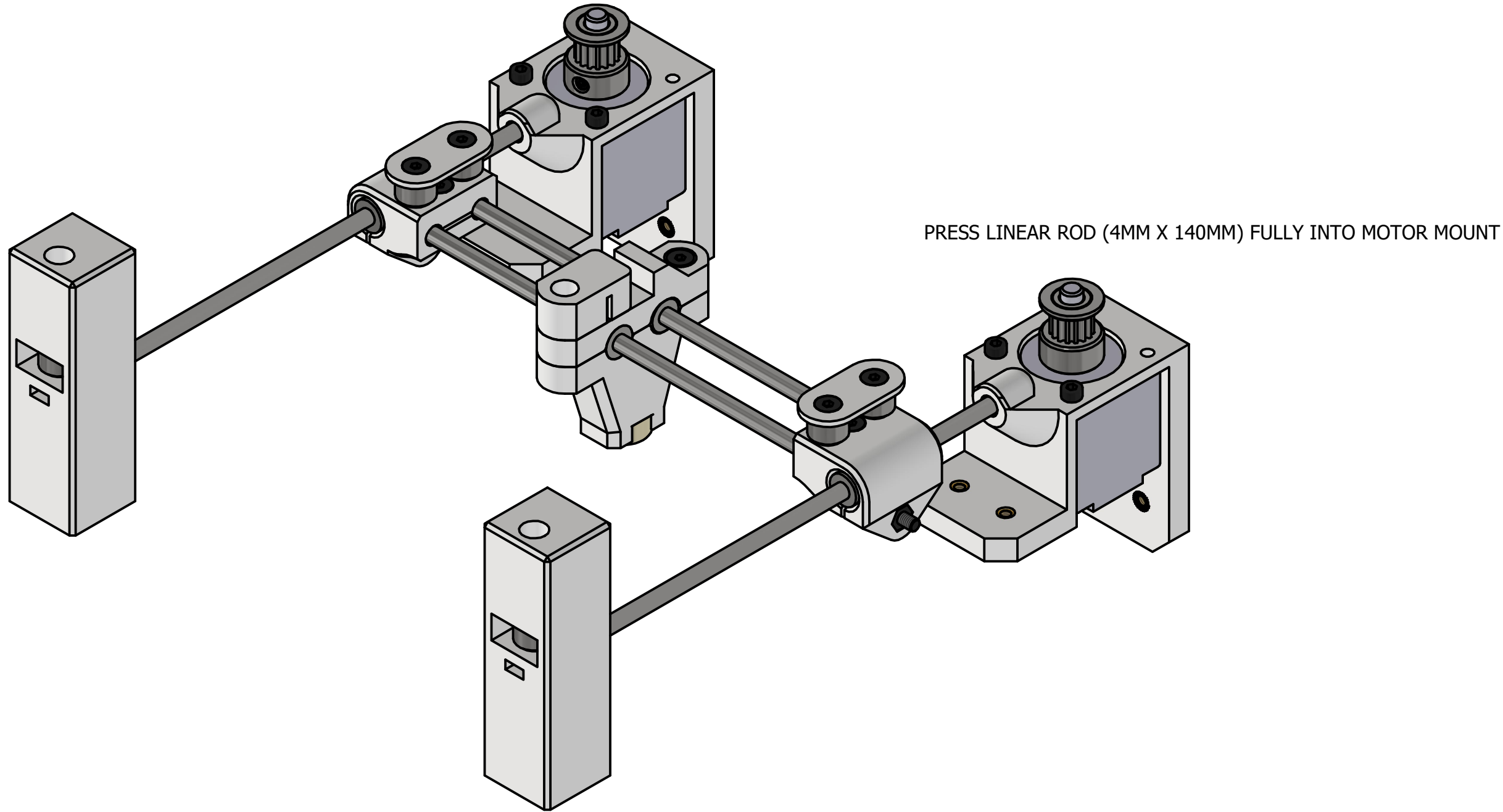
GT2 16T Pulley

NEMA 11



NOTE: BUILD 2X OF THE MOTOR MOUNT ASSEMBLIES

STEP 8



STEP 9

RUN THE BELT AS SHOWN
TENSION ENDS WITH BELT CLIP AND SCREW IN PLACE

M3 x 6 mm FHCS

4x

ALL SCREWS ON THE BACK ARE M3 X 6MM

ALL SCREWS ON THE
BOTTOM ARE M3 X 10MM

M3 x 10mm FHCS

14x

4

3

2

1

4

3

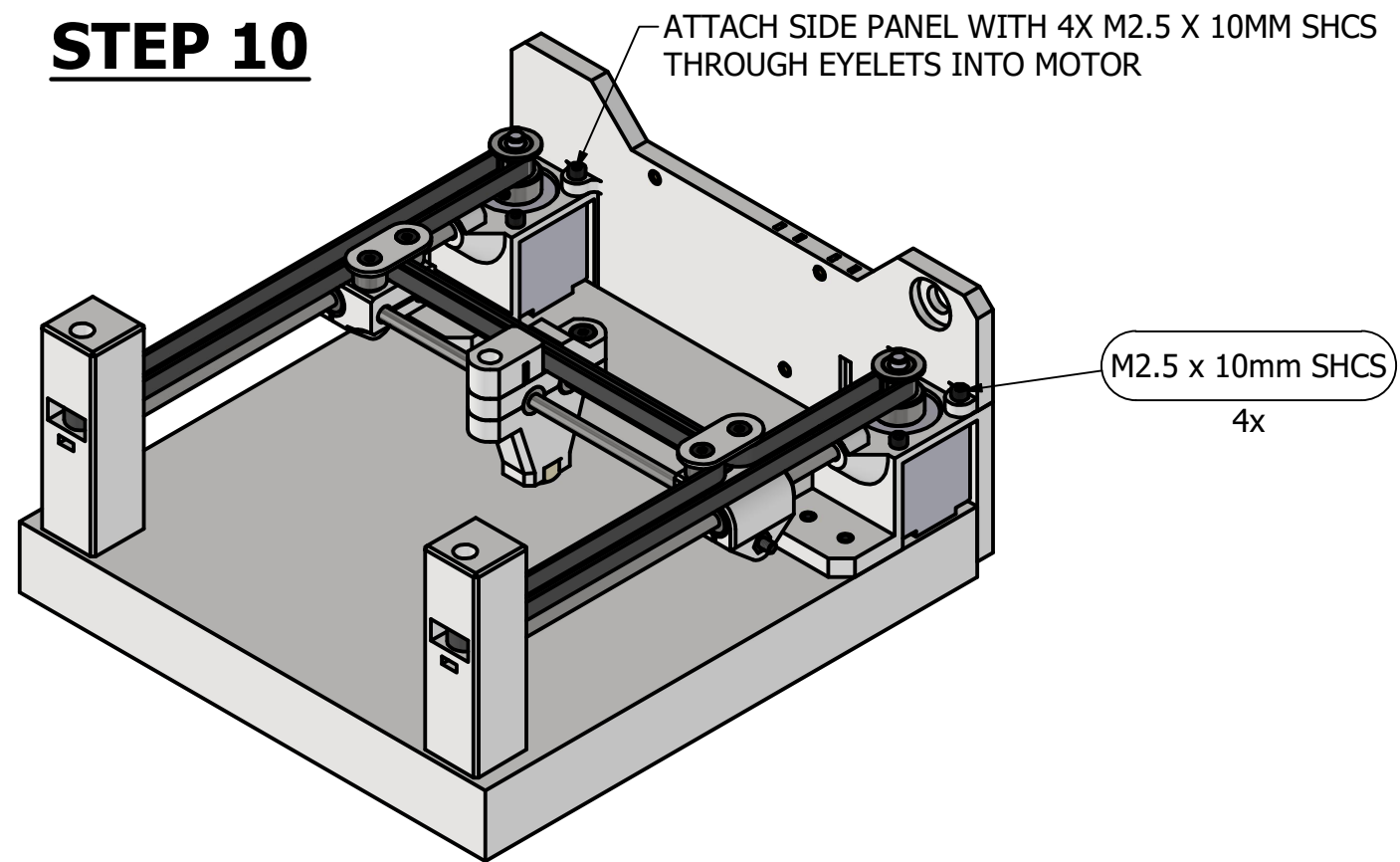
2

1

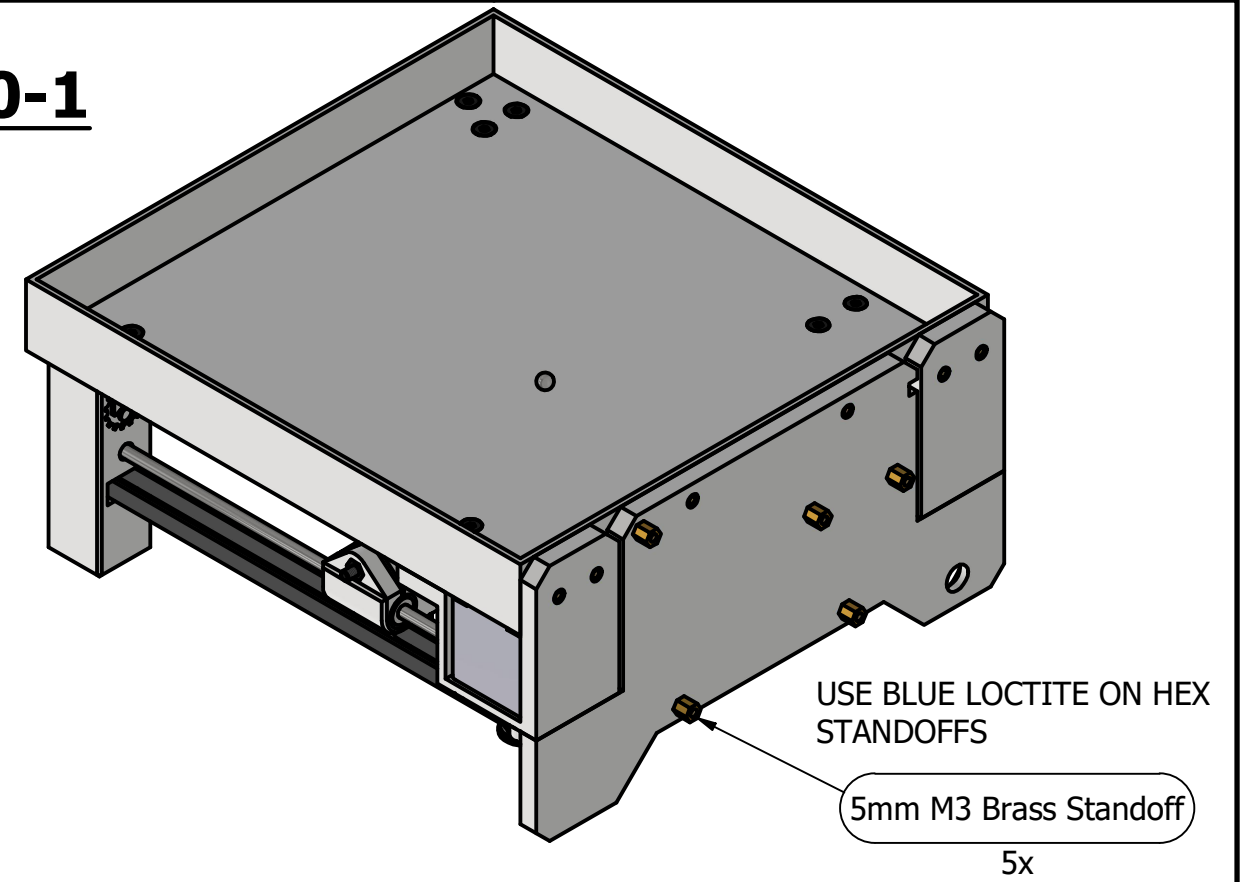
B

A

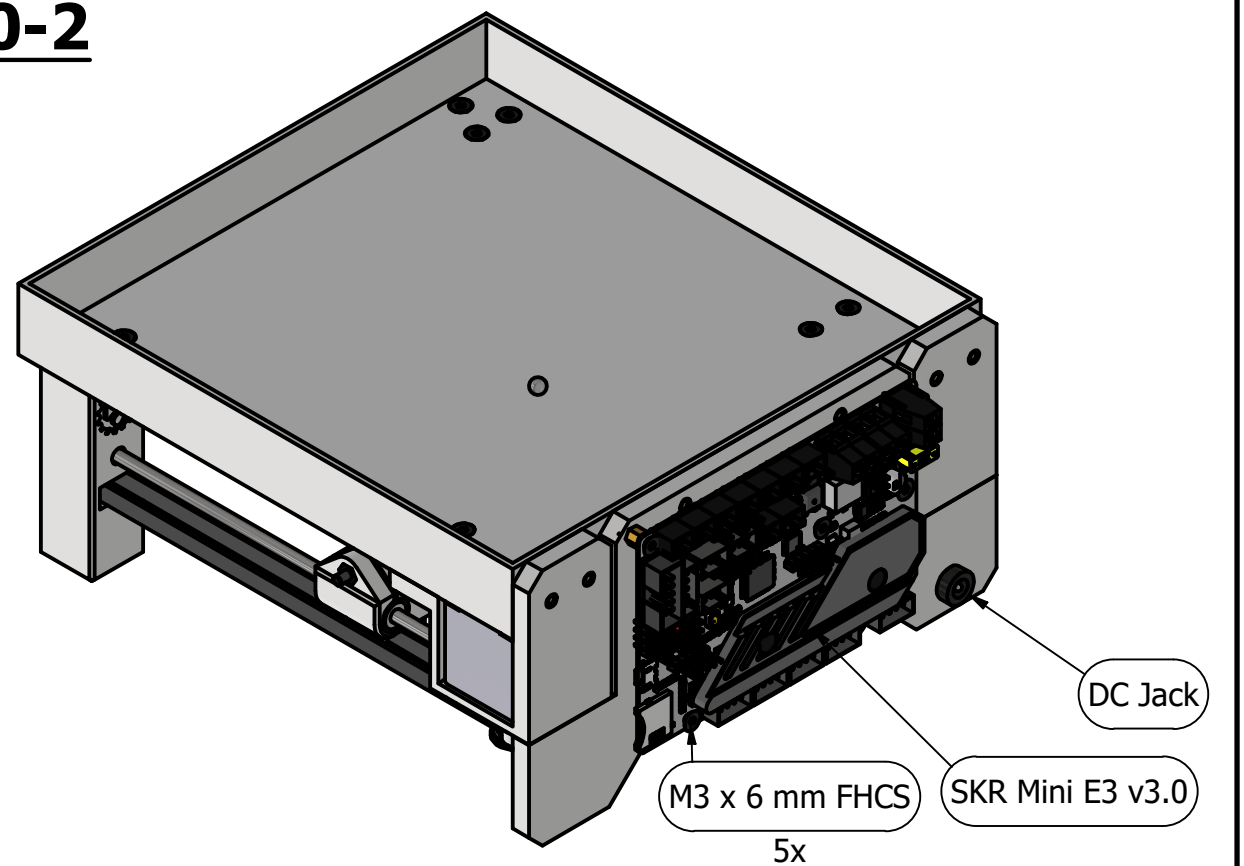
STEP 10



STEP 10-1



STEP 10-2



Step 11

APPLY ADHESIVE FELT TO THE SAND AREA

ADHERE LED TAPE TO INNER CURVED EDGE SO THE WIRES END BY THE PASS-THROUGH CUTOUT

FILL WITH $\frac{1}{16}$ " OF SAND

4mm Ball

B

B

A

A

4

1

3

4

2

1

1

4

1

3

4

2

1

1