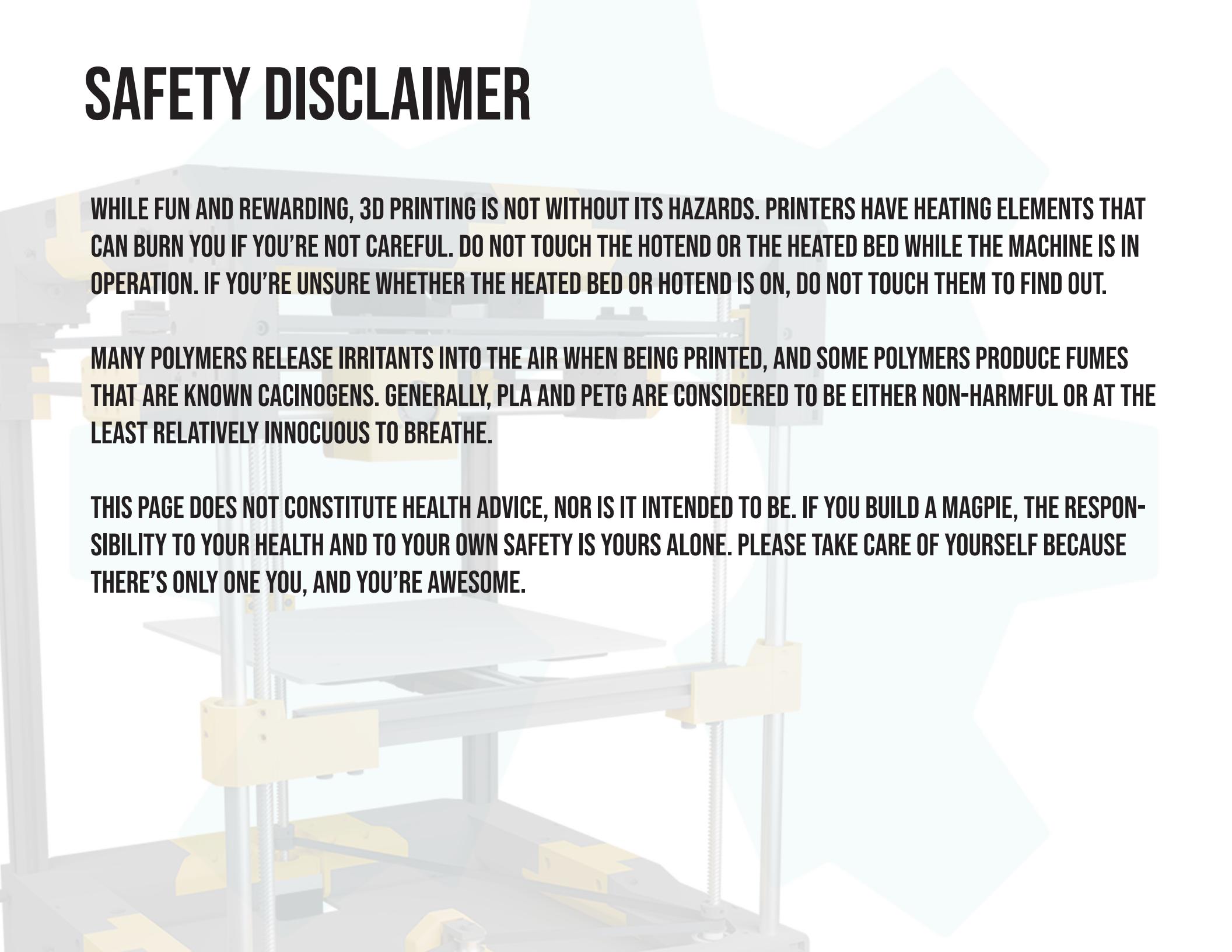


THE MAGPIE

OPEN-SOURCE & EASY TO BUILD

Version 1.0

SAFETY DISCLAIMER

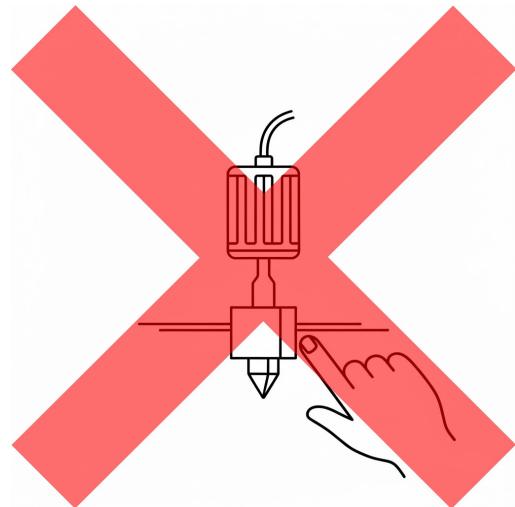


WHILE FUN AND REWARDING, 3D PRINTING IS NOT WITHOUT ITS HAZARDS. PRINTERS HAVE HEATING ELEMENTS THAT CAN BURN YOU IF YOU'RE NOT CAREFUL. DO NOT TOUCH THE HOTEND OR THE HEATED BED WHILE THE MACHINE IS IN OPERATION. IF YOU'RE UNSURE WHETHER THE HEATED BED OR HOTEND IS ON, DO NOT TOUCH THEM TO FIND OUT.

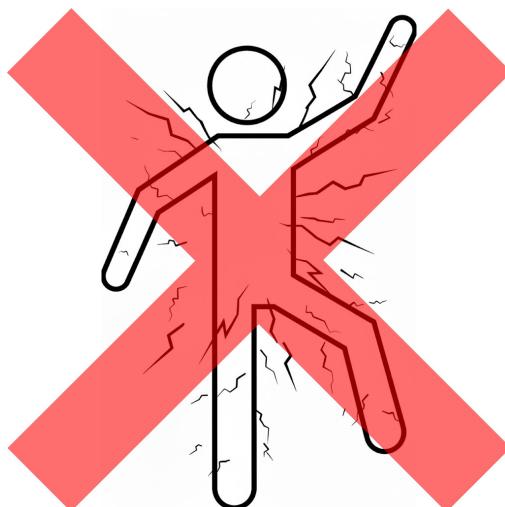
MANY POLYMERS RELEASE IRRITANTS INTO THE AIR WHEN BEING PRINTED, AND SOME POLYMERS PRODUCE FUMES THAT ARE KNOWN CACINOGENS. GENERALLY, PLA AND PETG ARE CONSIDERED TO BE EITHER NON-HARMFUL OR AT THE LEAST RELATIVELY INNOCUOUS TO BREATHE.

THIS PAGE DOES NOT CONSTITUTE HEALTH ADVICE, NOR IS IT INTENDED TO BE. IF YOU BUILD A MAGPIE, THE RESPONSIBILITY TO YOUR HEALTH AND TO YOUR OWN SAFETY IS YOURS ALONE. PLEASE TAKE CARE OF YOURSELF BECAUSE THERE'S ONLY ONE YOU, AND YOU'RE AWESOME.

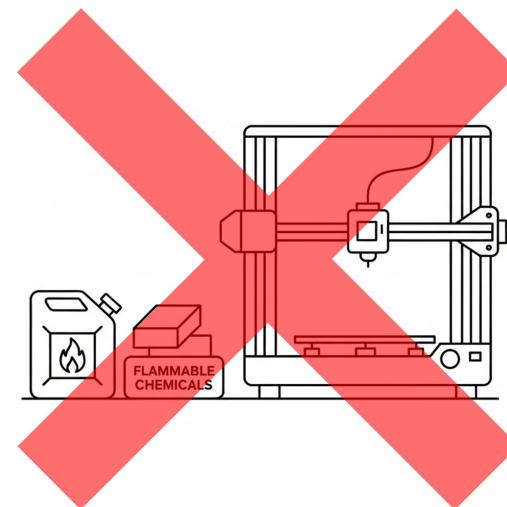
SAFETY TIPS



DON'T TOUCH THE HOTEND



DON'T PLAY WITH MAINS POWER
UNLESS YOU KNOW WHAT YOU'RE
DOING



DON'T PRINT NEAR THINGS
THAT WANT TO BE ON FIRE

PRINTED PARTS SETTINGS

MATERIAL CONSIDERATIONS

ACCEPTABLE MATERIALS ARE: ASA, ABS, PETG, PCTG, PLA

DO NOT ENCLOSE THE PRINTER IF PRINTED FROM PLA

PRINT SETTINGS:

“VORON STANDARD”

LAYER HEIGHT: 0.2MM

EXTRUSION WIDTH: 0.4MM, FORCED

INFILL PERCENTAGE: 40%

INFILL TYPE: GRID, GYROID, HONEYCOMB, TRIANGLE, OR
CUBIC

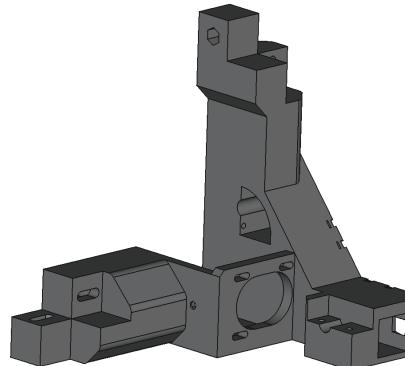
WALL COUNT: 4

SOLID TOP/BOTTOM LAYERS: 5

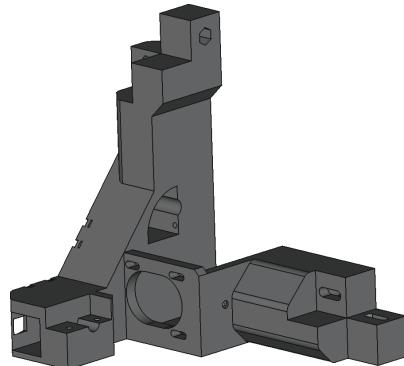
SUPPORTS: NONE

TOP FRAME ASSEMBLY

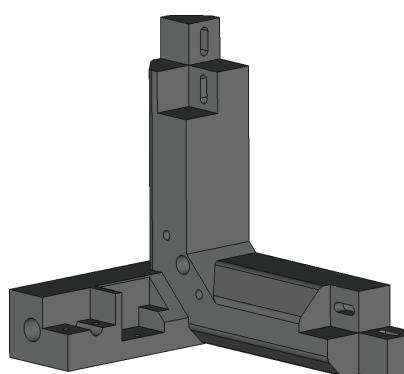
REQUIRED PIECES:



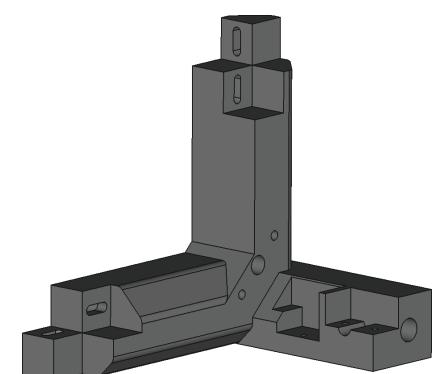
REAR LEFT CORNER



REAR RIGHT CORNER

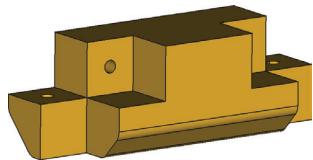


FRONT LEFT CORNER

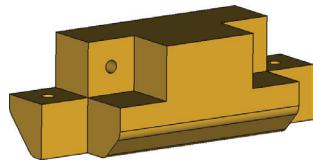


FRONT RIGHT CORNER

SIDE CONNECTOR (1 OF 2)



SIDE CONNECTER (2 OF 2)

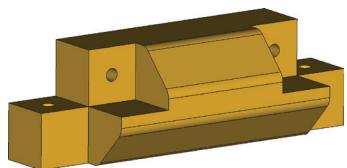


M5X25 SOCKET HEAD

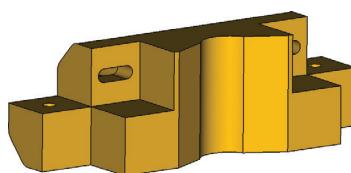


X16

FRONT CONNECTOR



REAR CONNECTOR

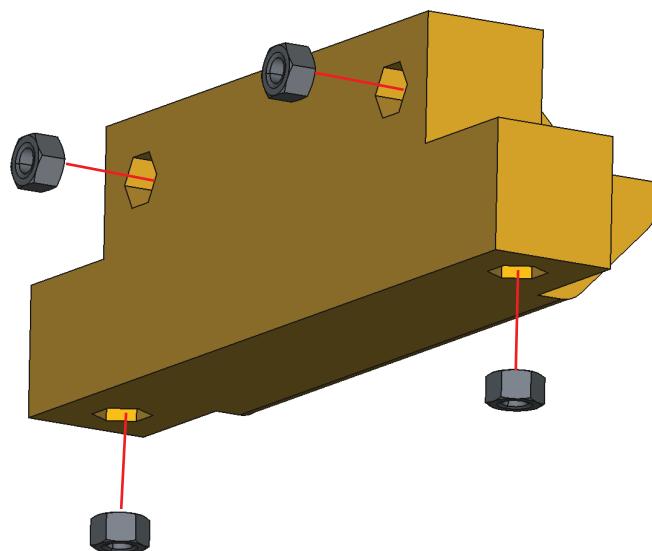


M5 HEX NUT

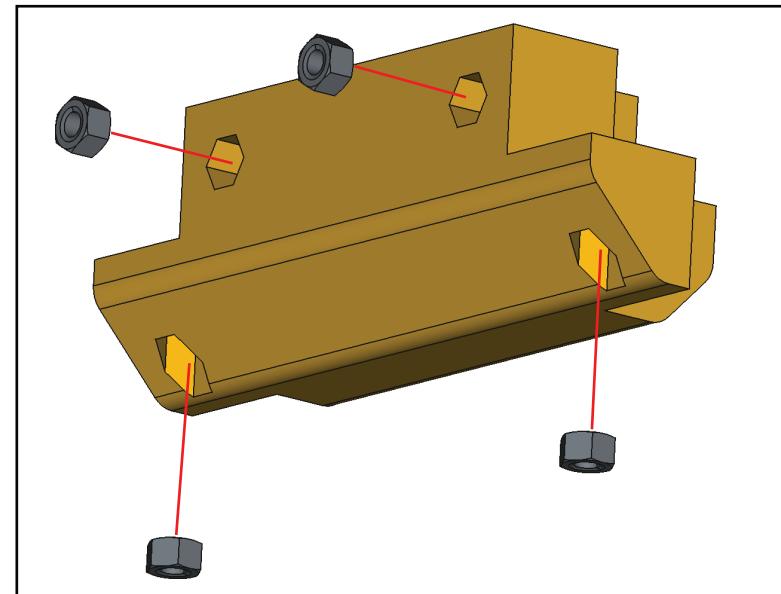


X18

TOP FRAME ASSEMBLY

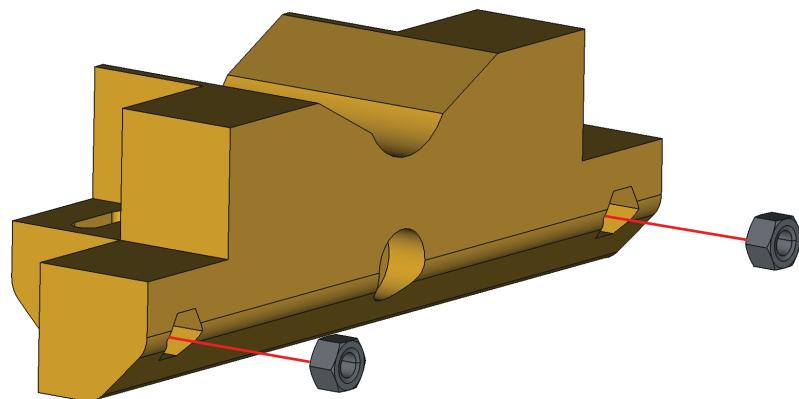


FRONT CONNECTOR

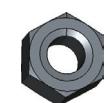


SIDE CONNECTOR

X2

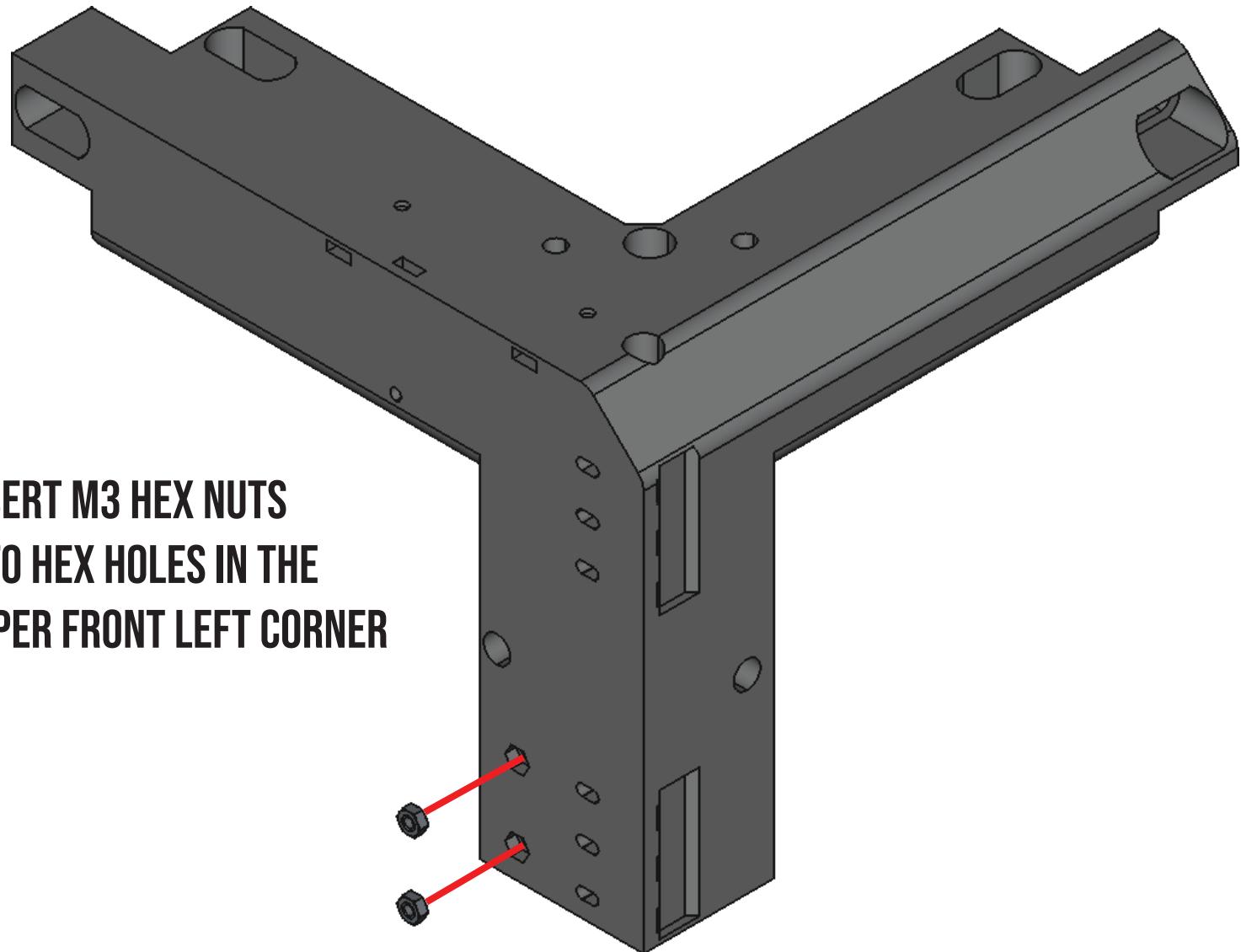


REAR CONNECTOR



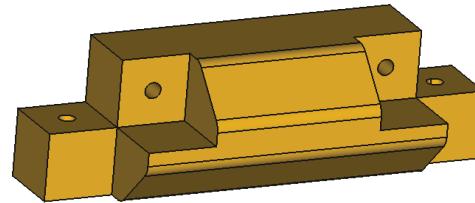
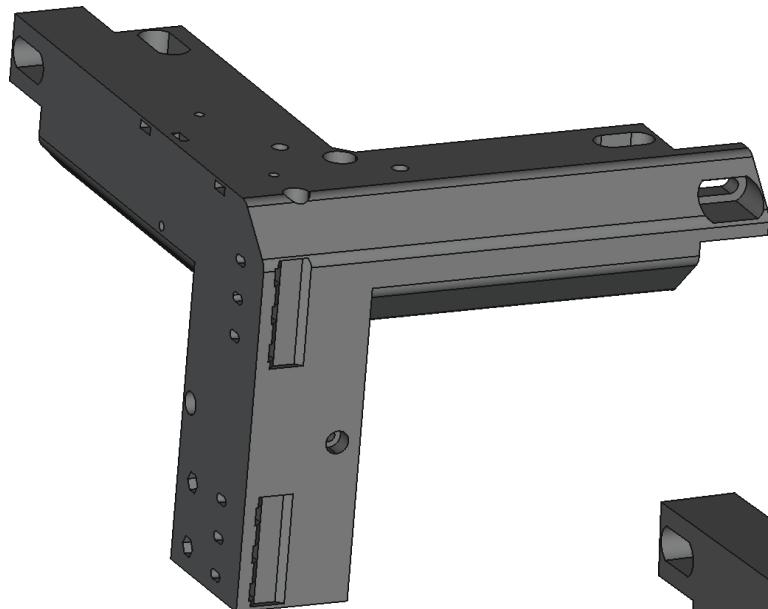
M5 HEX NUT

TOP FRAME ASSEMBLY

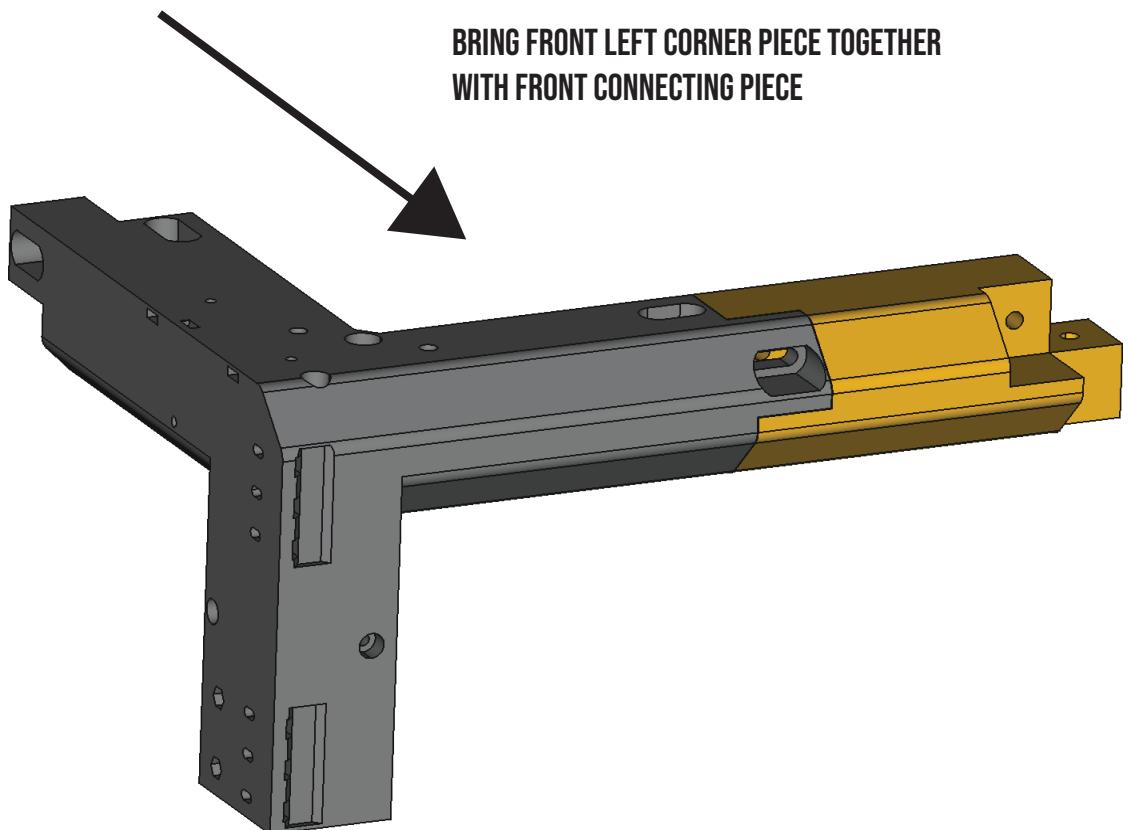


 M3 HEX NUT

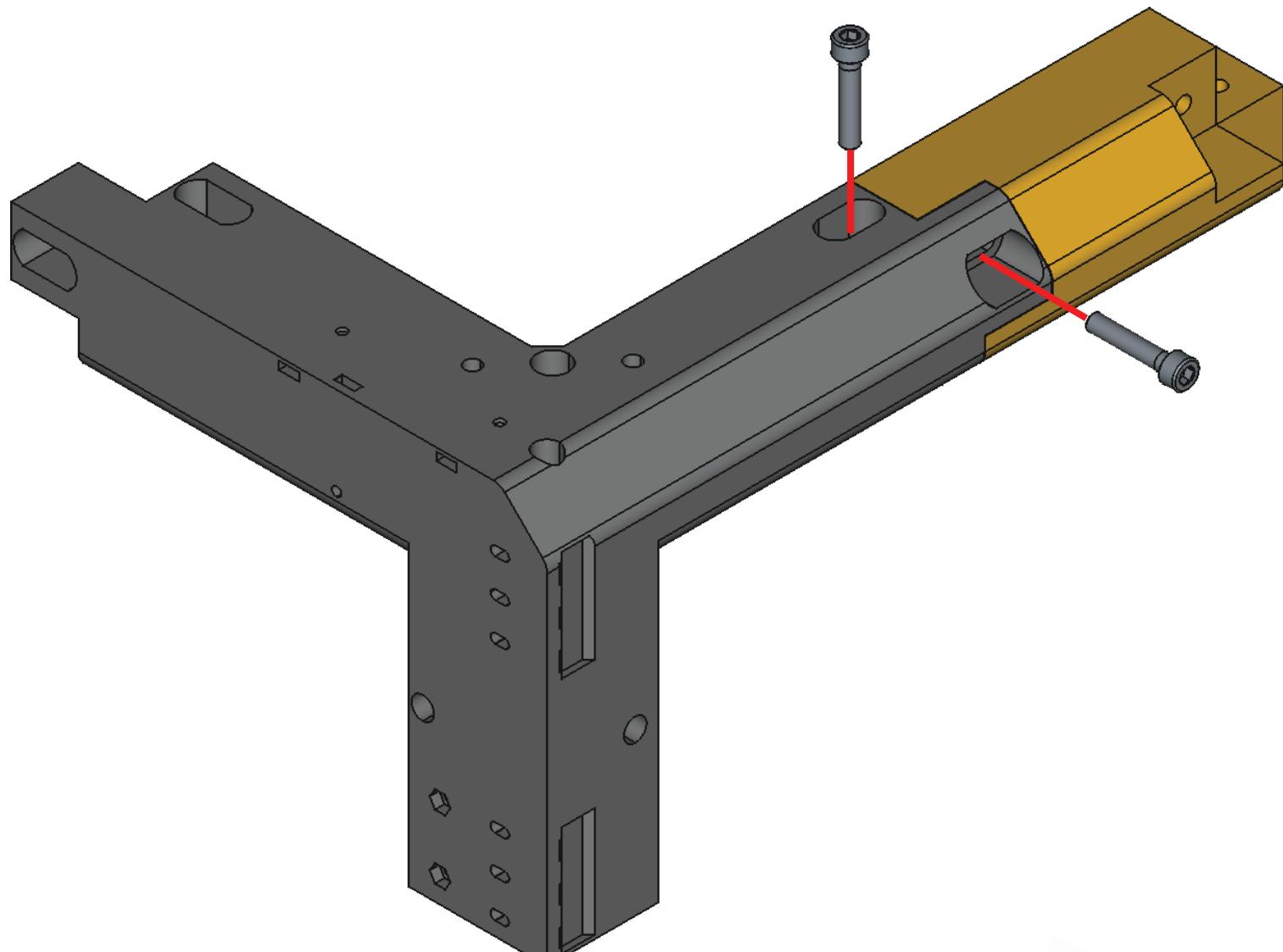
TOP FRAME ASSEMBLY



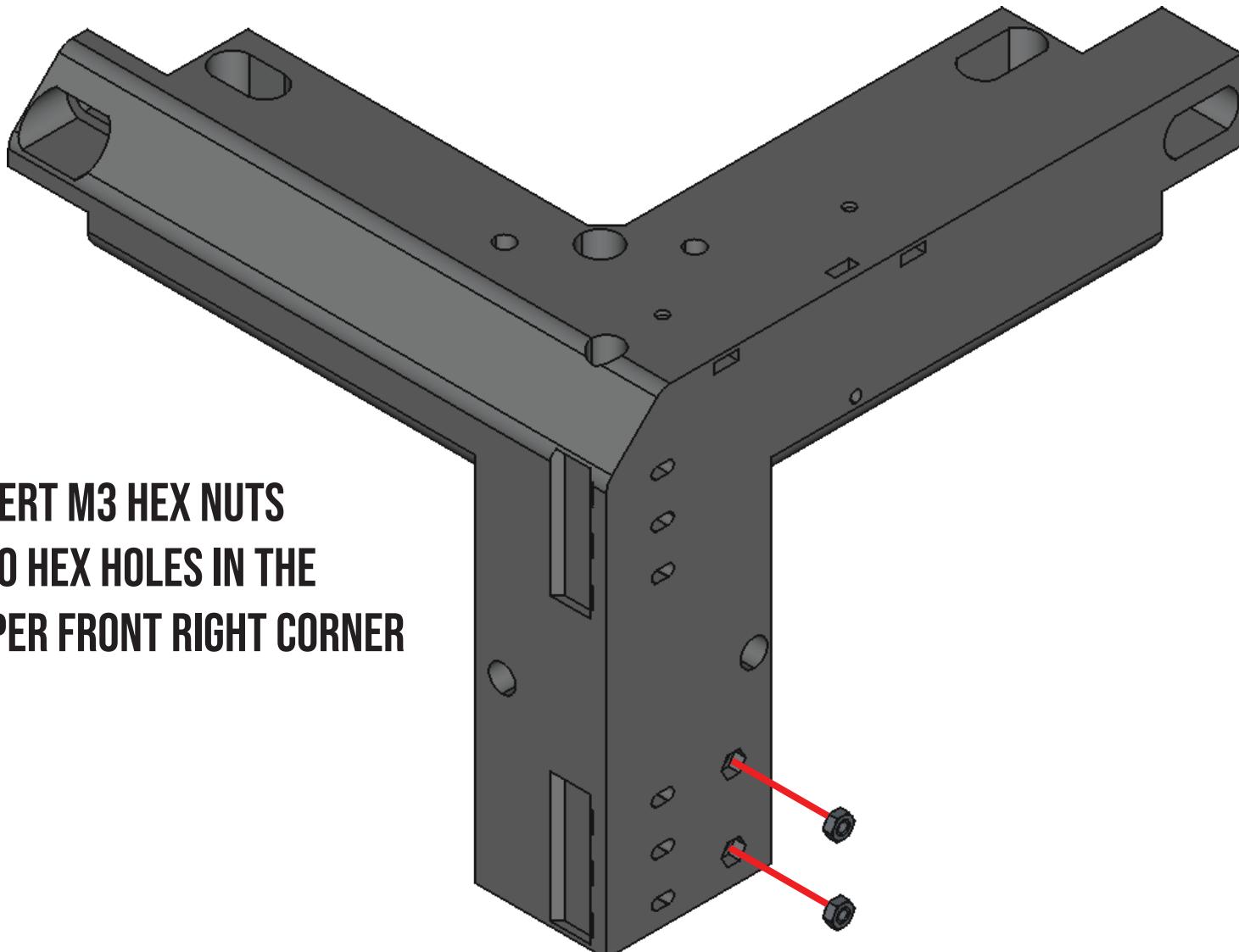
BRING FRONT LEFT CORNER PIECE TOGETHER
WITH FRONT CONNECTING PIECE



TOP FRAME ASSEMBLY



TOP FRAME ASSEMBLY

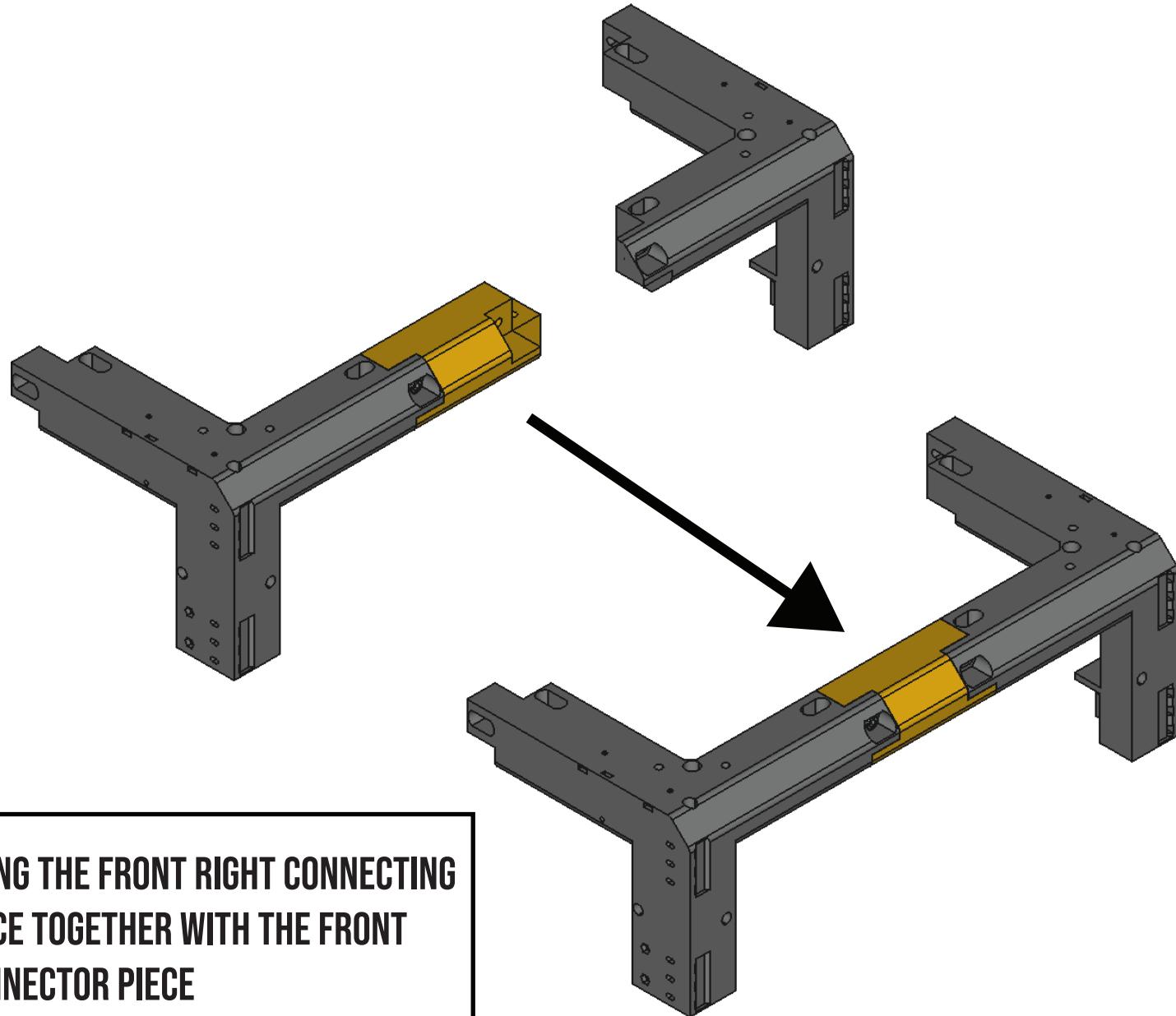


INSERT M3 HEX NUTS
INTO HEX HOLES IN THE
UPPER FRONT RIGHT CORNER



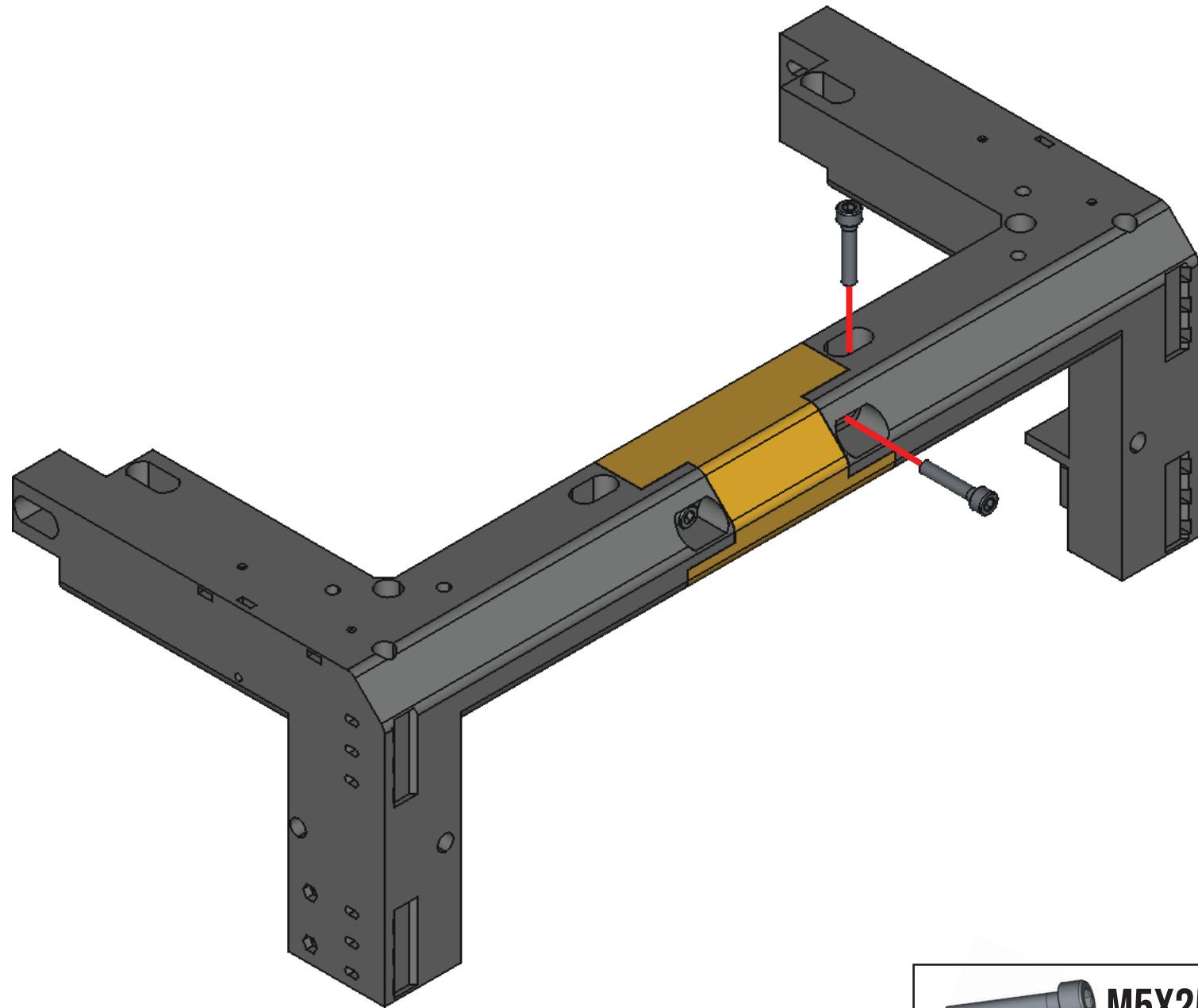
M3 HEX NUT

TOP FRAME ASSEMBLY



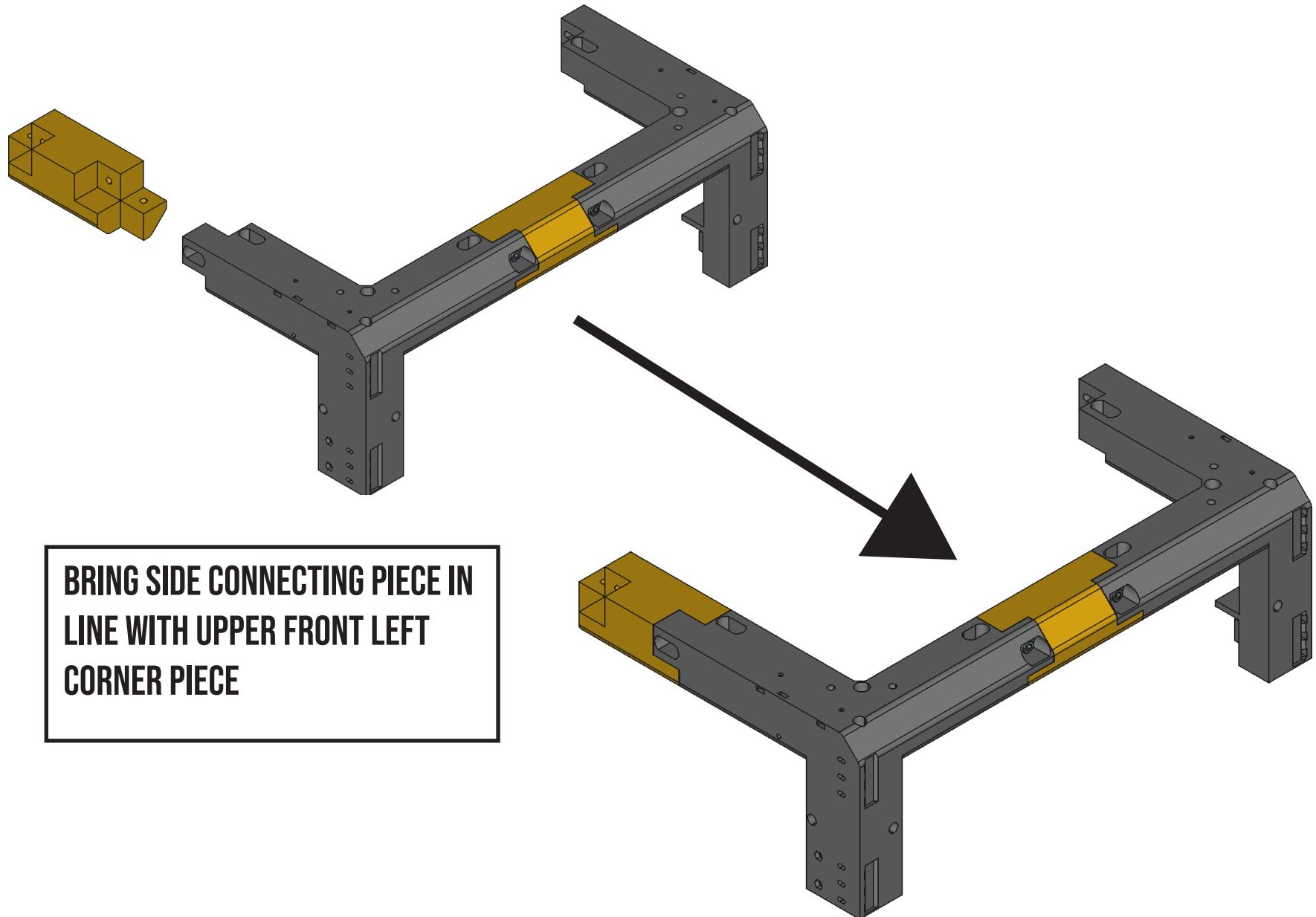
BRING THE FRONT RIGHT CONNECTING
PIECE TOGETHER WITH THE FRONT
CONNECTOR PIECE

TOP FRAME ASSEMBLY

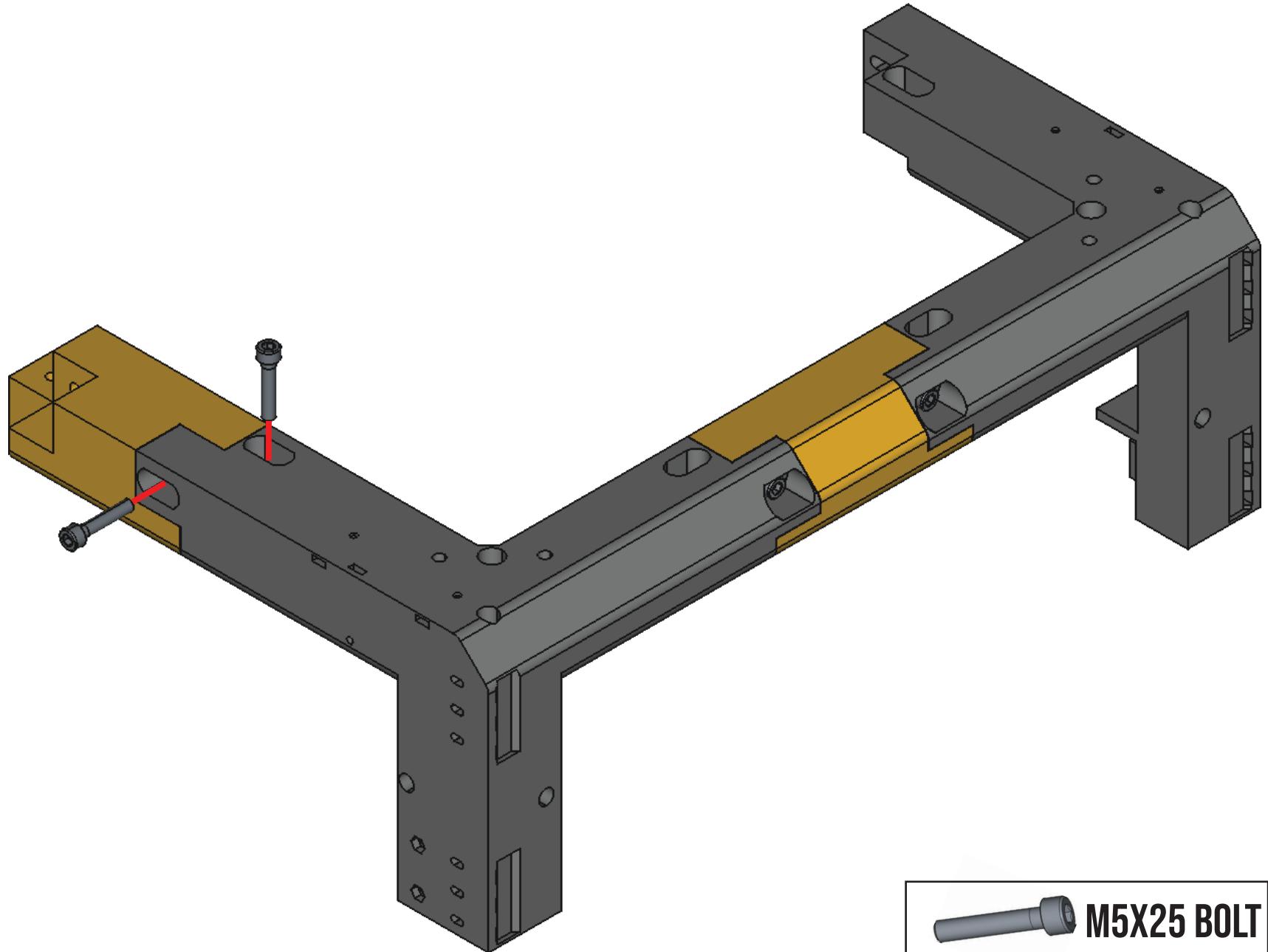


M5X25 BOLT

TOP FRAME ASSEMBLY

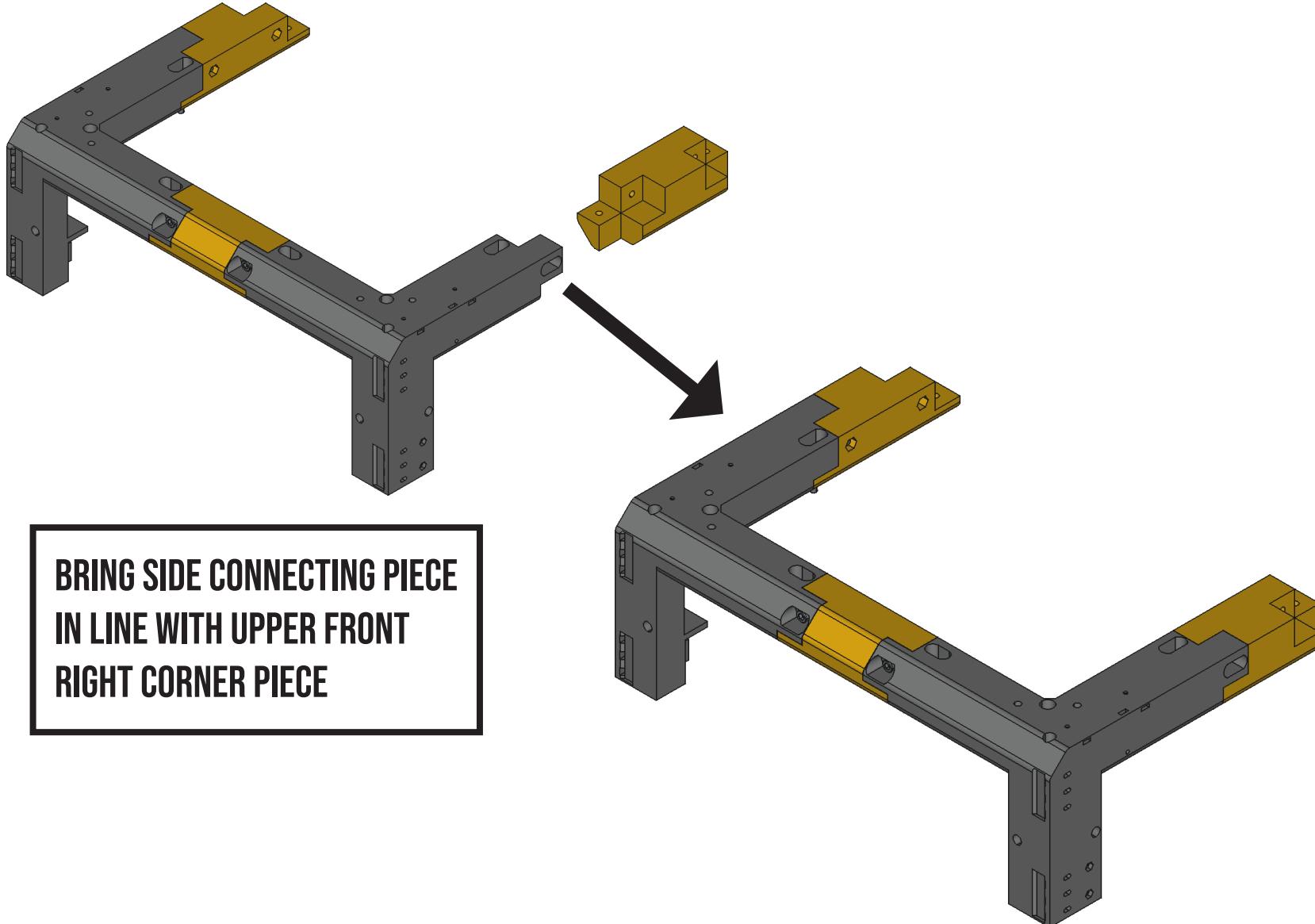


TOP FRAME ASSEMBLY

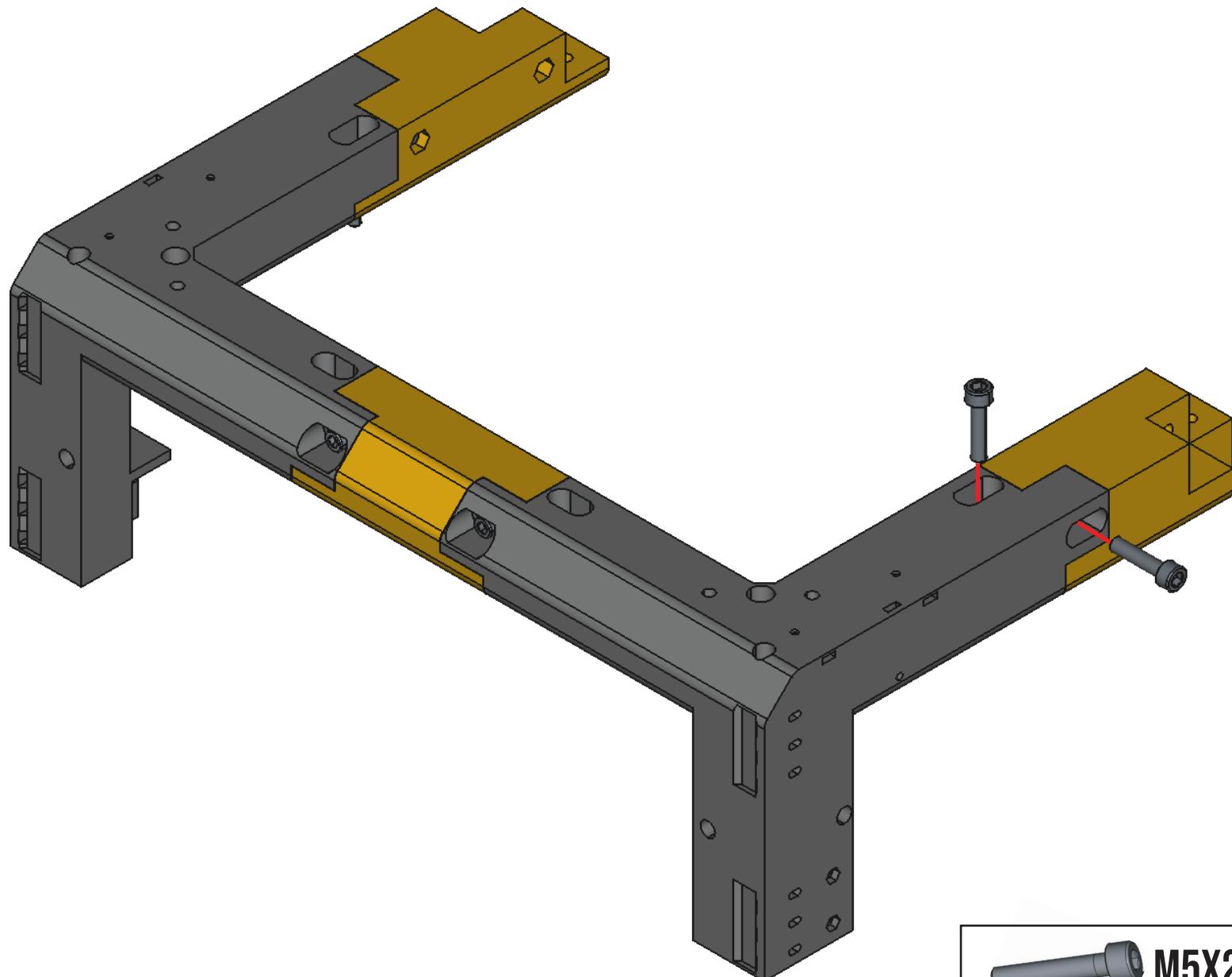


 M5X25 BOLT

TOP FRAME ASSEMBLY

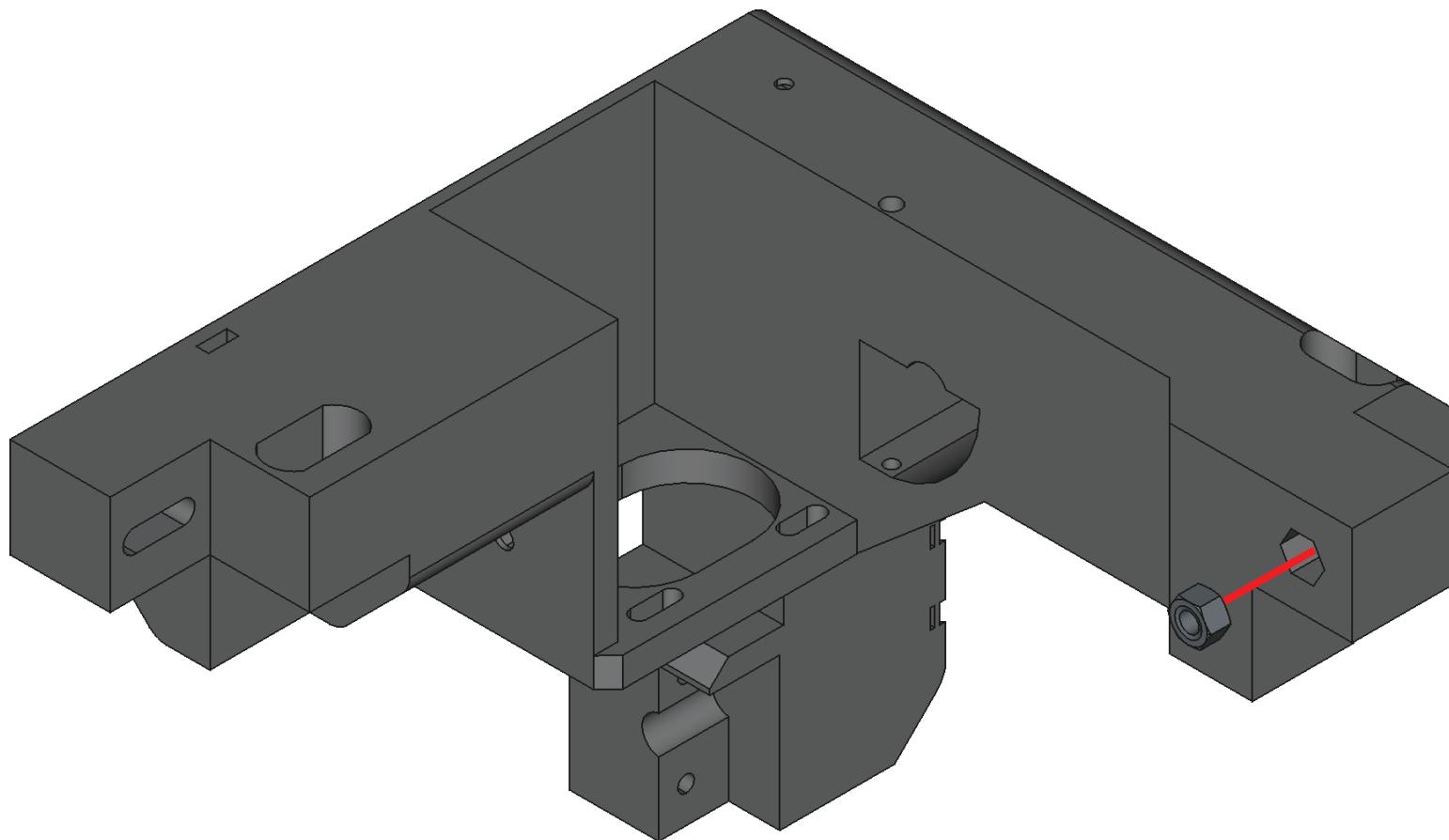


TOP FRAME ASSEMBLY



M5X25 BOLT

TOP FRAME ASSEMBLY

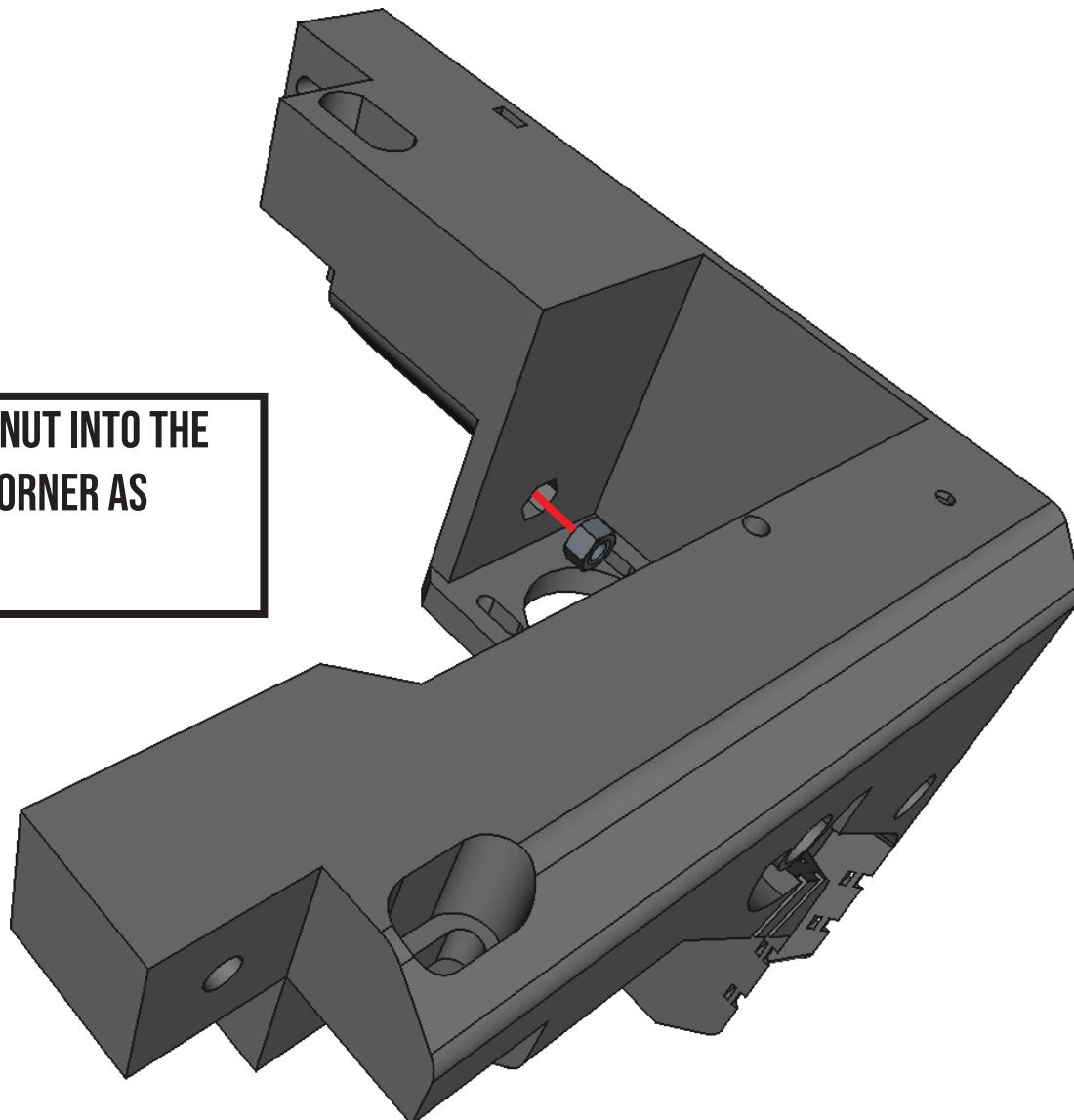


PUT THE M5 HEX NUT INTO THE
TOP REAR LEFT CORNER AS
SHOWN



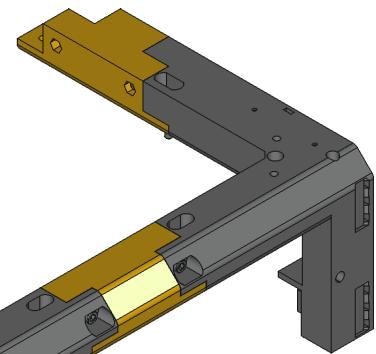
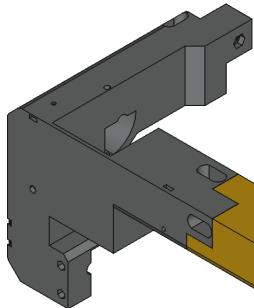
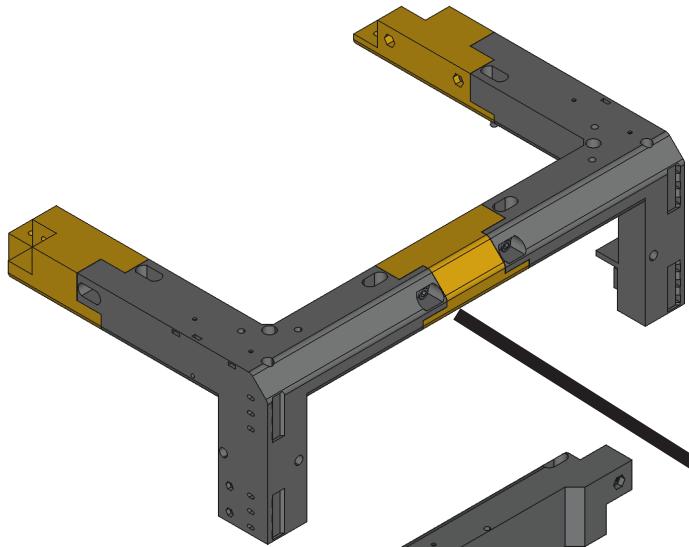
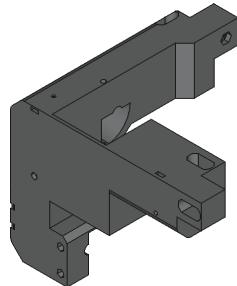
TOP FRAME ASSEMBLY

PUT THE M5 HEX NUT INTO THE
TOP REAR LEFT CORNER AS
SHOWN

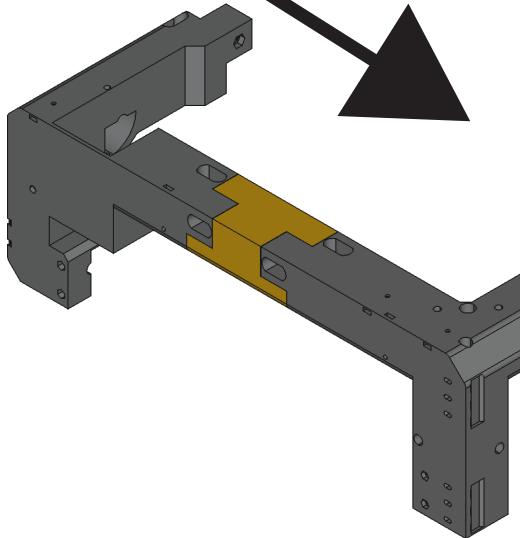


M5 HEX NUT

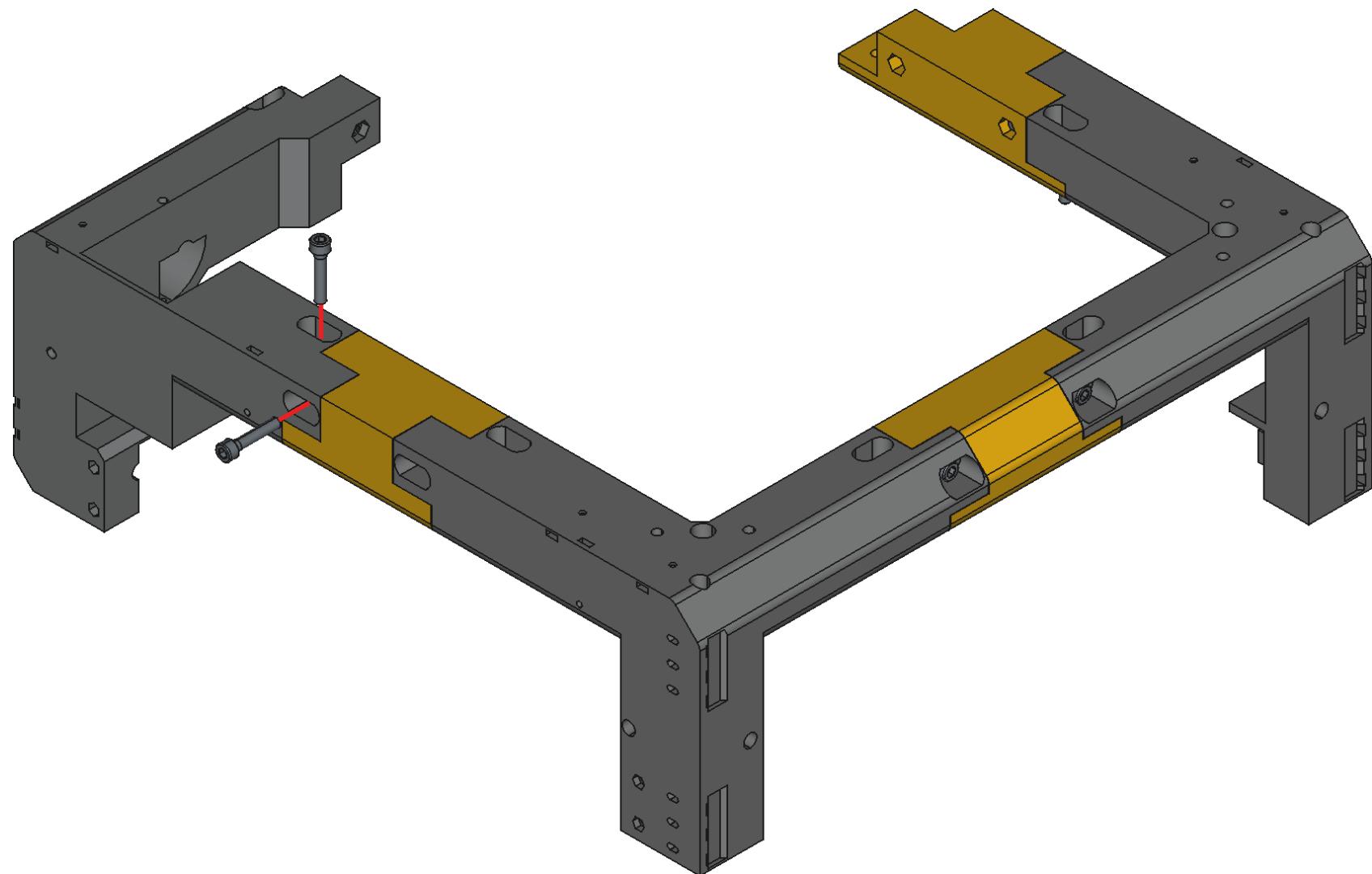
TOP FRAME ASSEMBLY



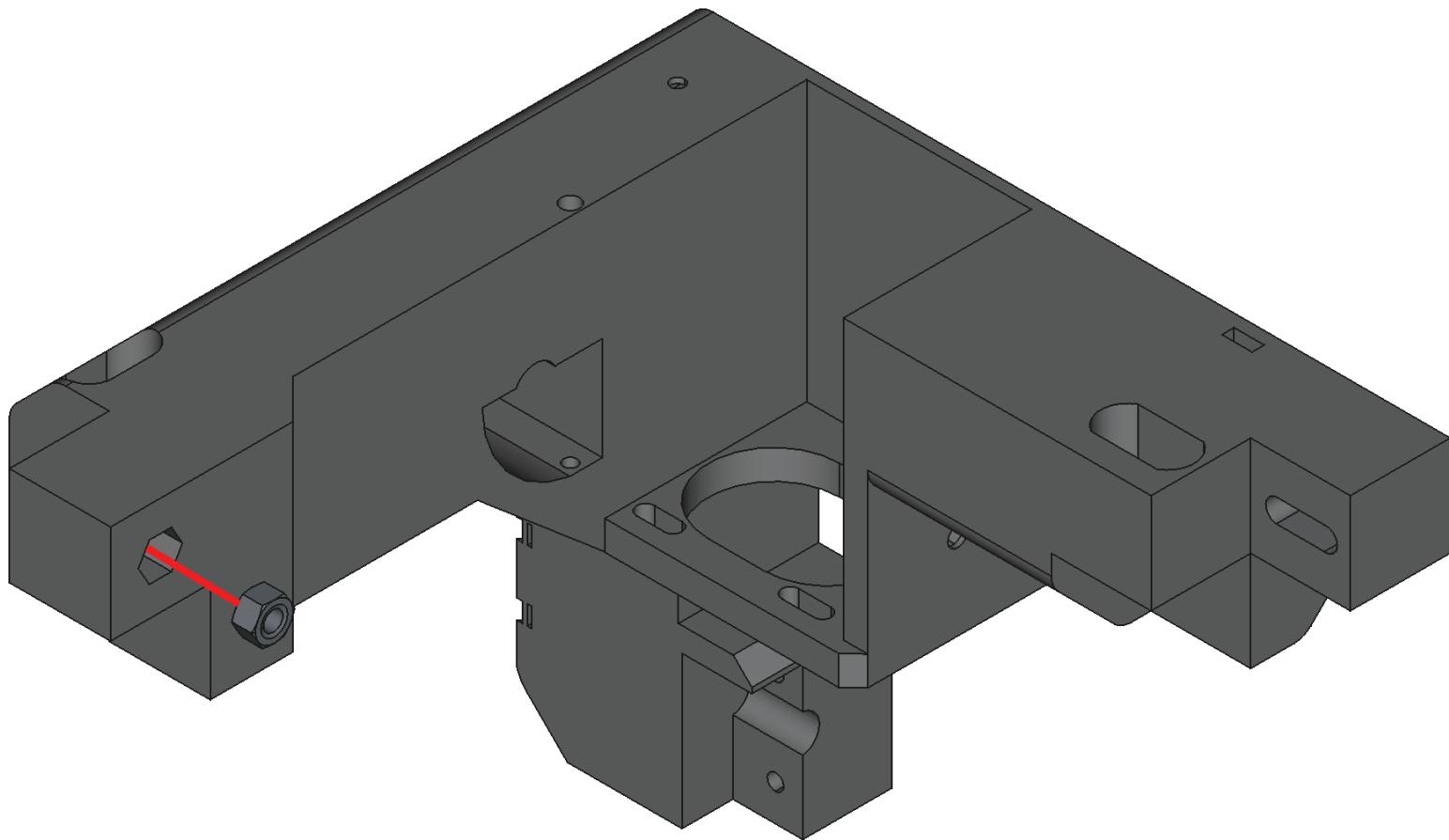
**BRING TOP REAR LEFT CORNER IN
LINE WITH ASSEMBLY**



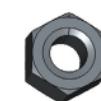
TOP FRAME ASSEMBLY



TOP FRAME ASSEMBLY

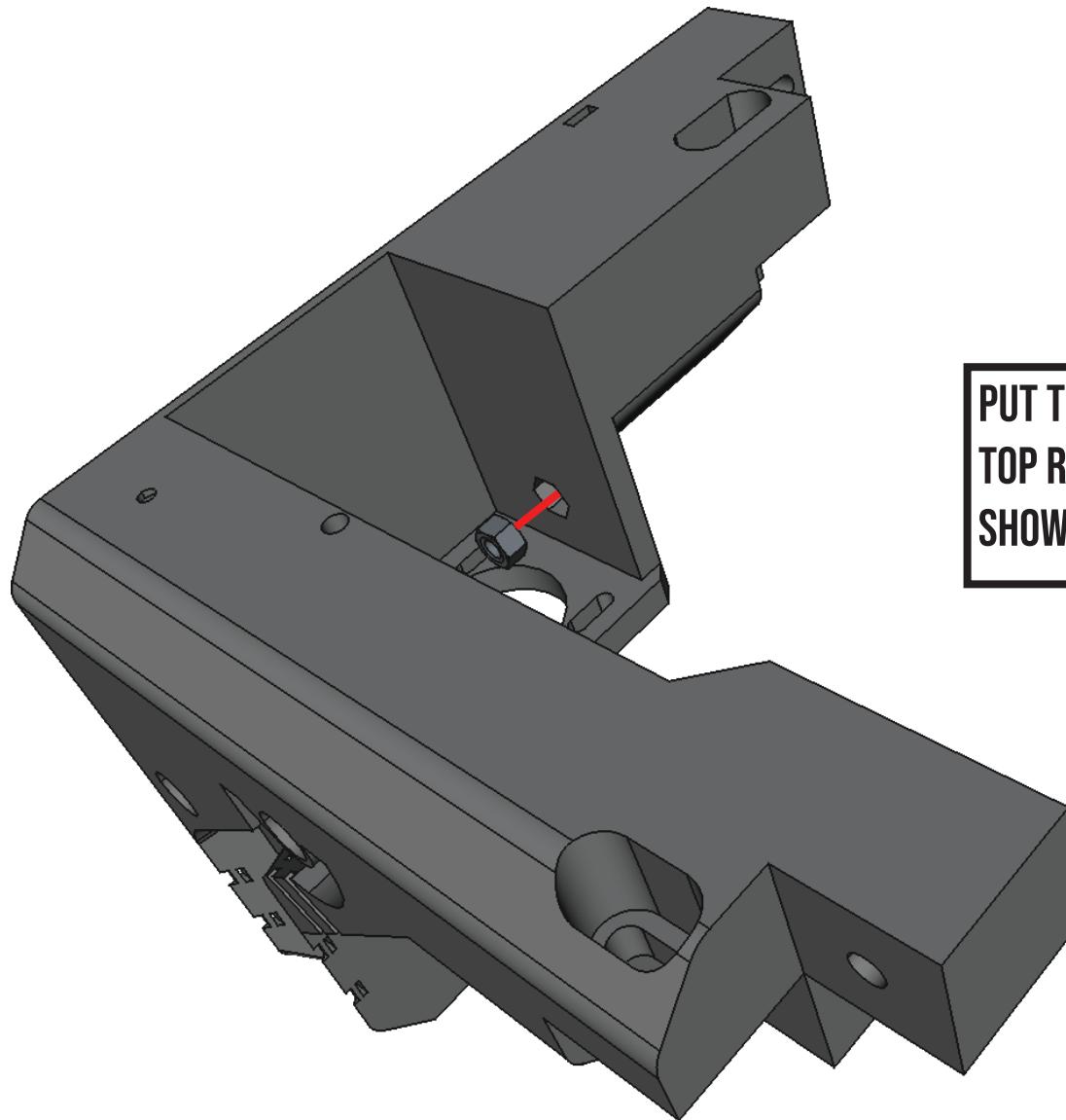


PUT THE M5 HEX NUT INTO THE
TOP REAR RIGHT CORNER AS
SHOWN



M5 HEX NUT

TOP FRAME ASSEMBLY

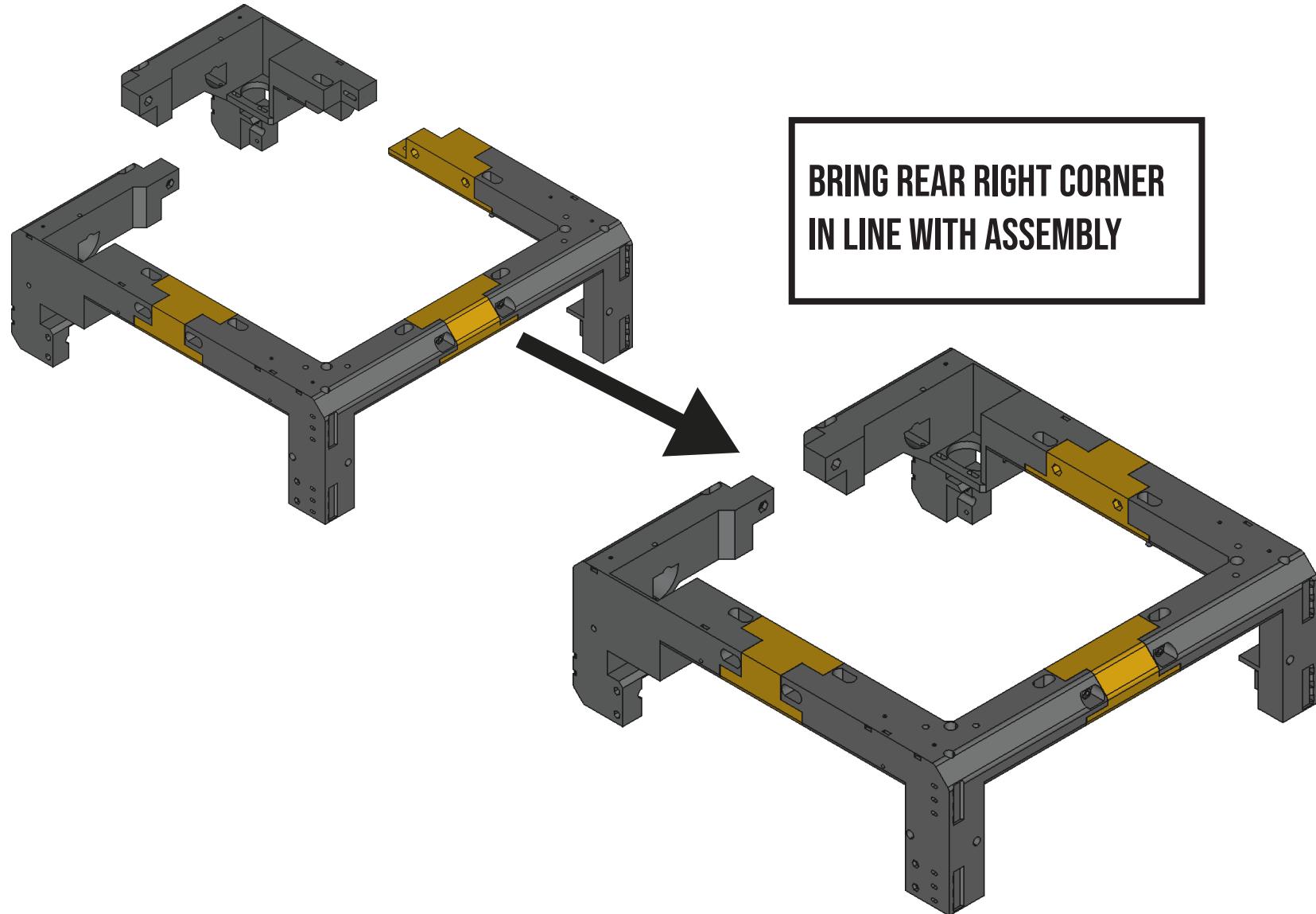


PUT THE M5 HEX NUT INTO THE
TOP REAR RIGHT CORNER AS
SHOWN

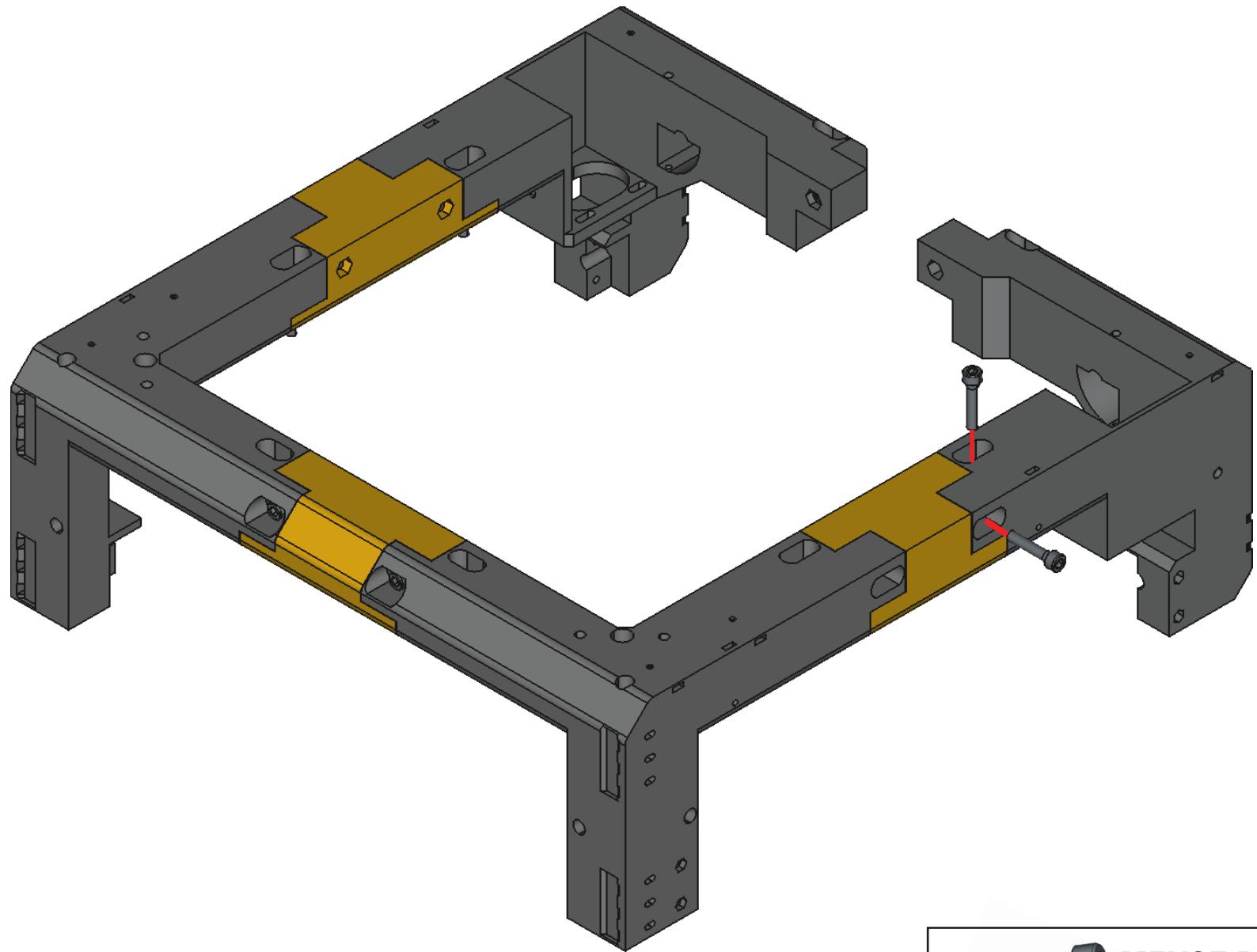


M5 HEX NUT

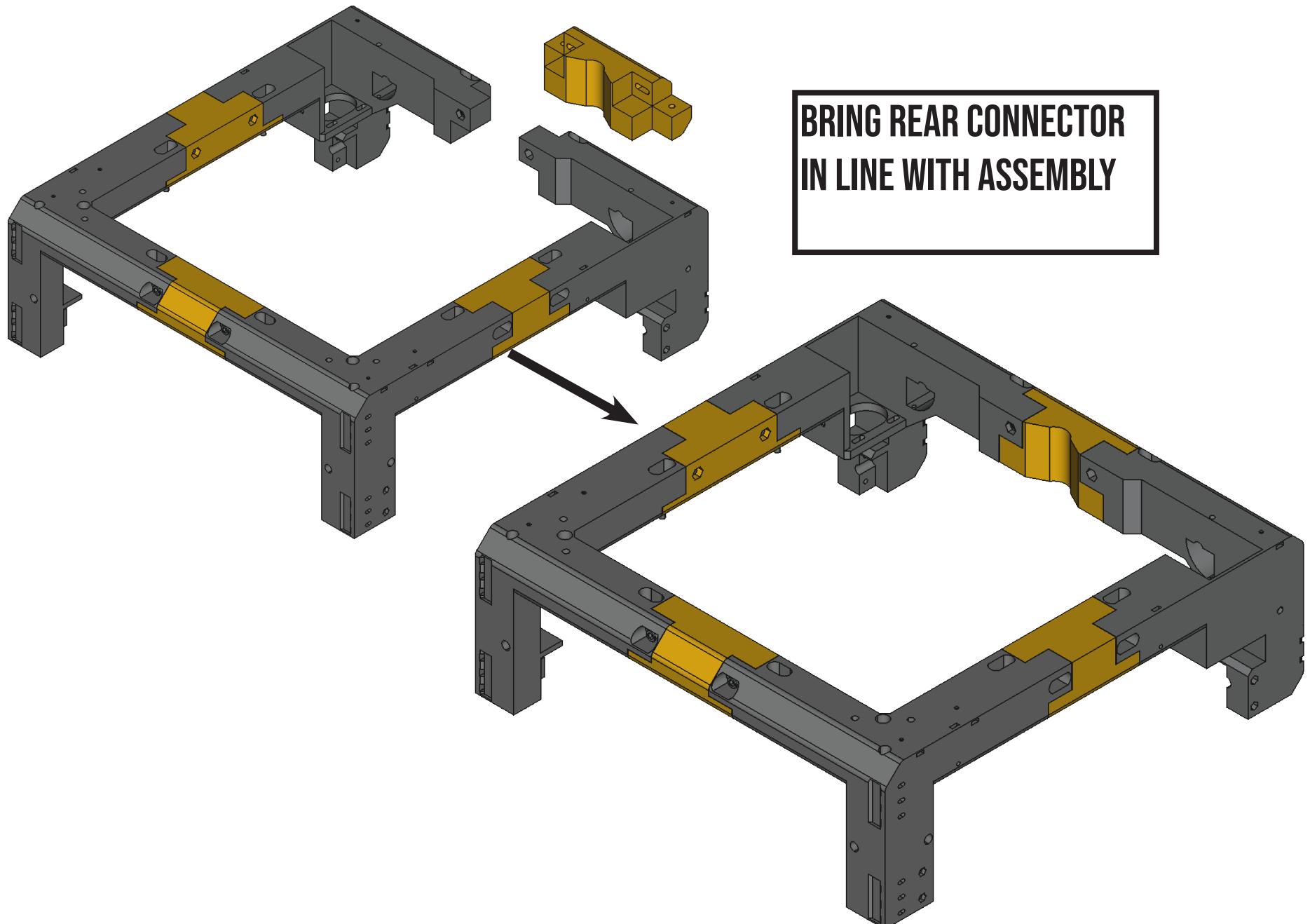
TOP FRAME ASSEMBLY



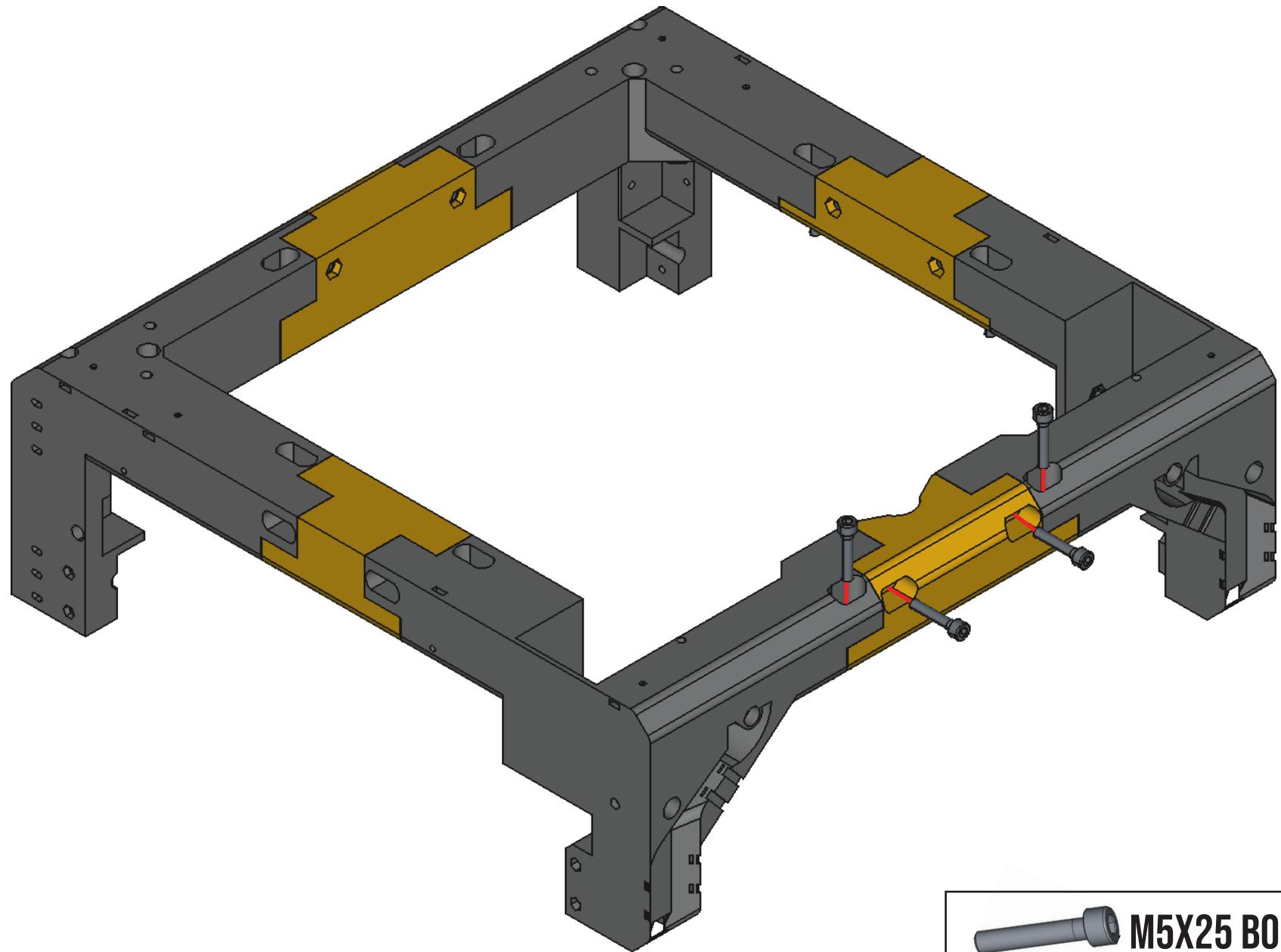
TOP FRAME ASSEMBLY



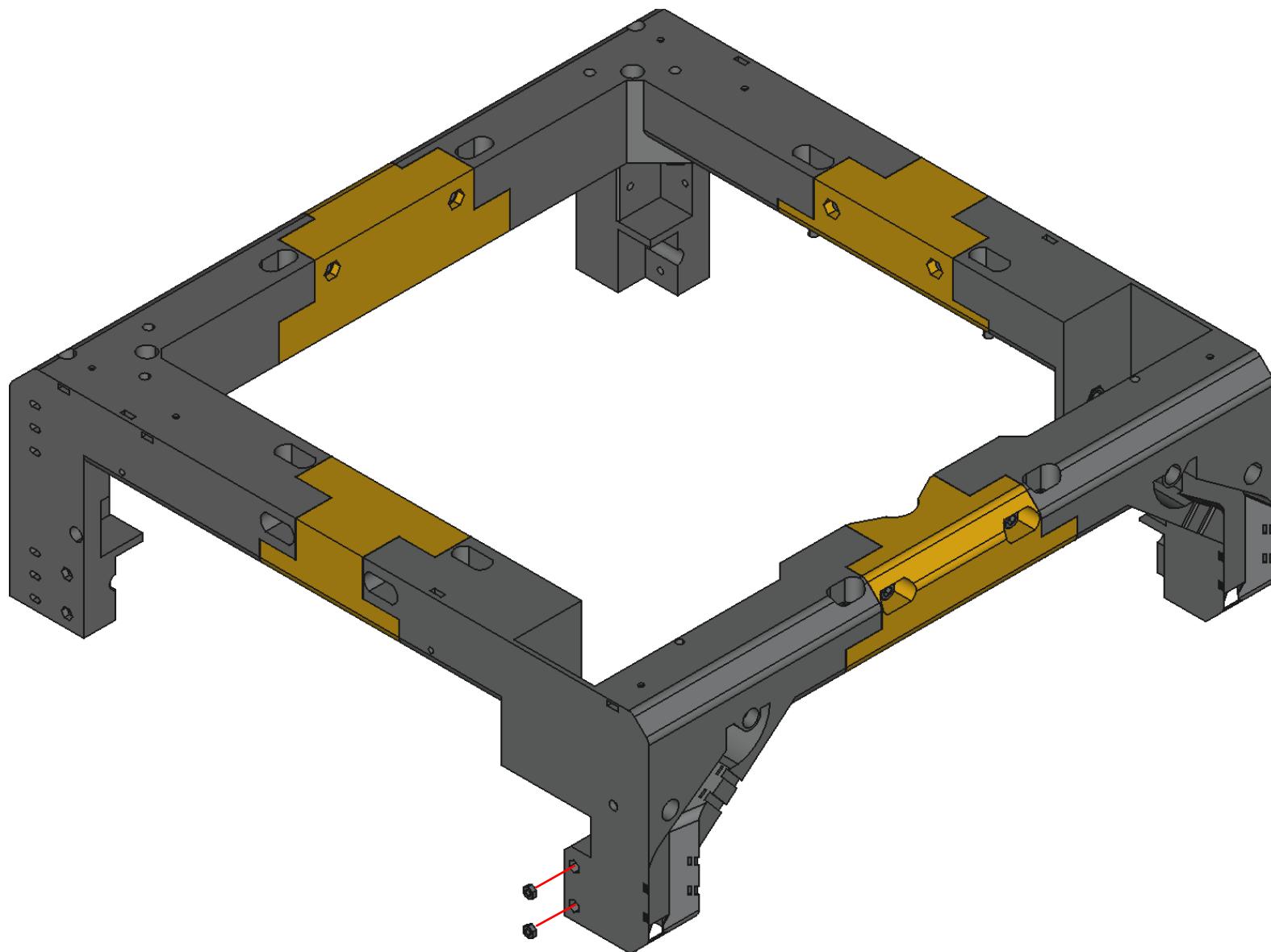
TOP FRAME ASSEMBLY



TOP FRAME ASSEMBLY

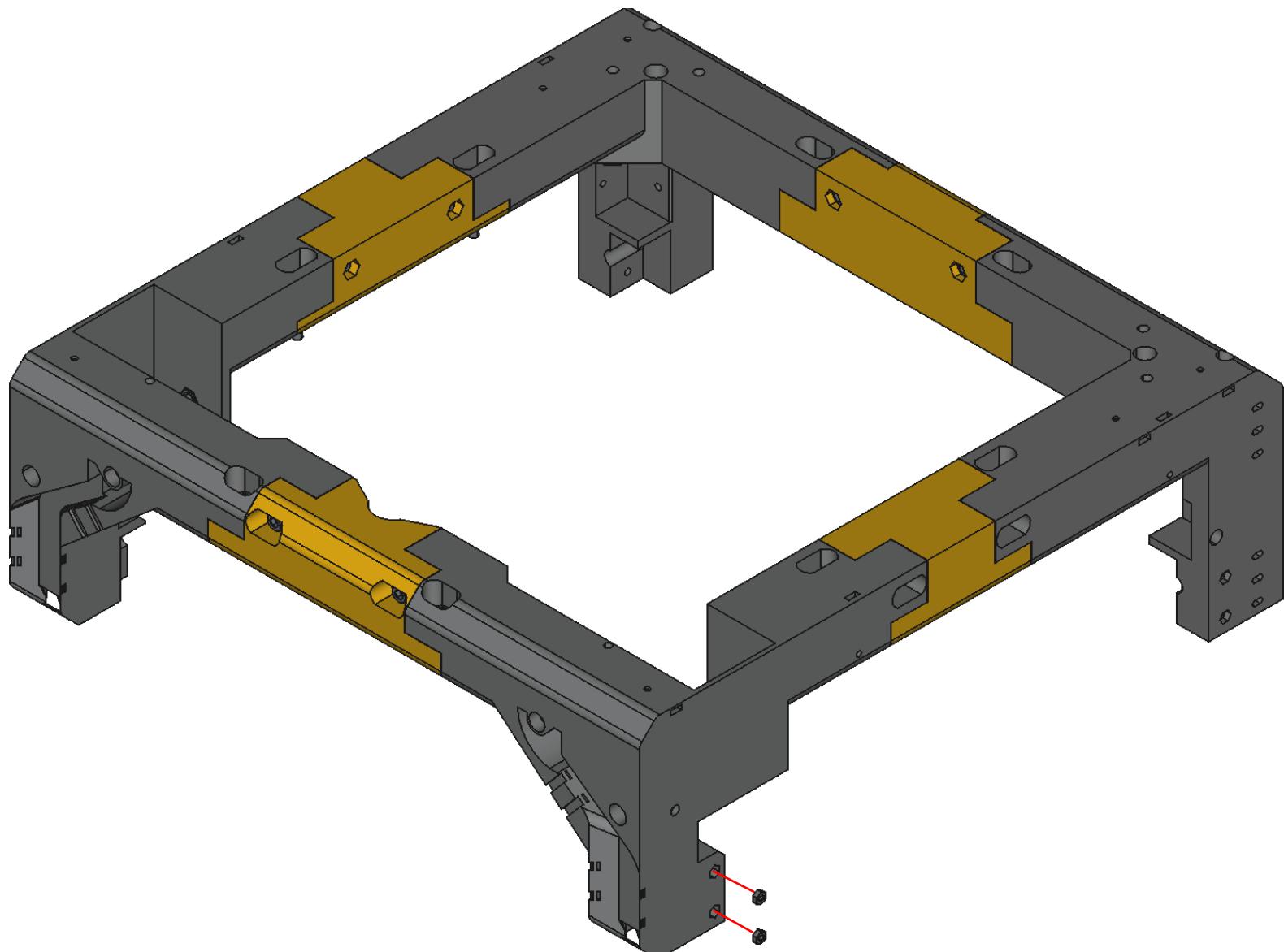


TOP FRAME ASSEMBLY



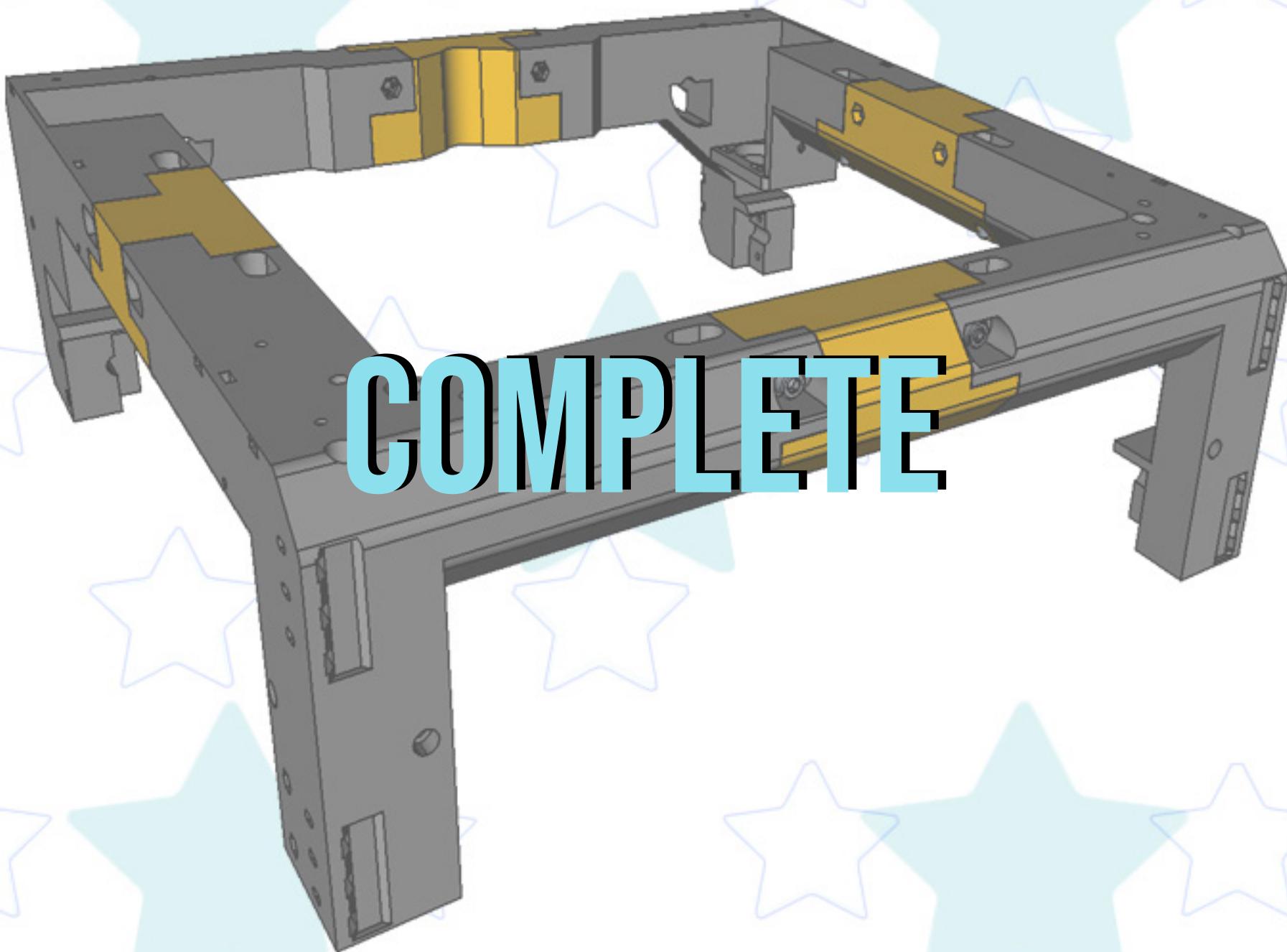
 M3 HEX NUT

TOP FRAME ASSEMBLY



 M3 HEX NUT

TOP FRAME ASSEMBLY



COMPLETE

X/Y GANTRY & MOTION COMPONENTS