



CMS RPC – YE-4/1

CMS RPC – YE-4/1 Brackets
Installation test



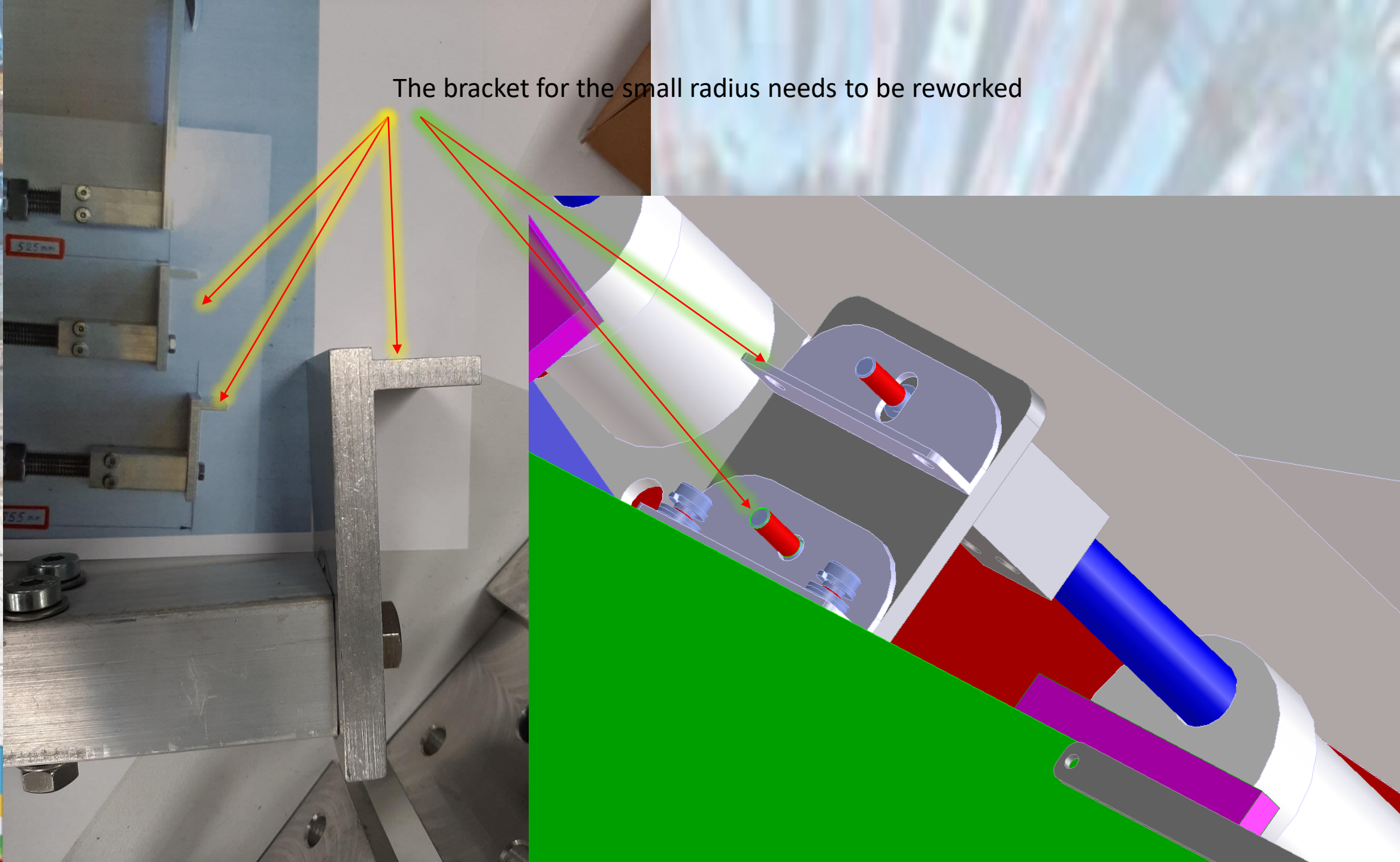
We need to constraint the rotation
for the bracket head.
And split or replace (thick washers)
the spacers



The third nut needs to come off from the top of the rod.
Some threads need to be fixed.

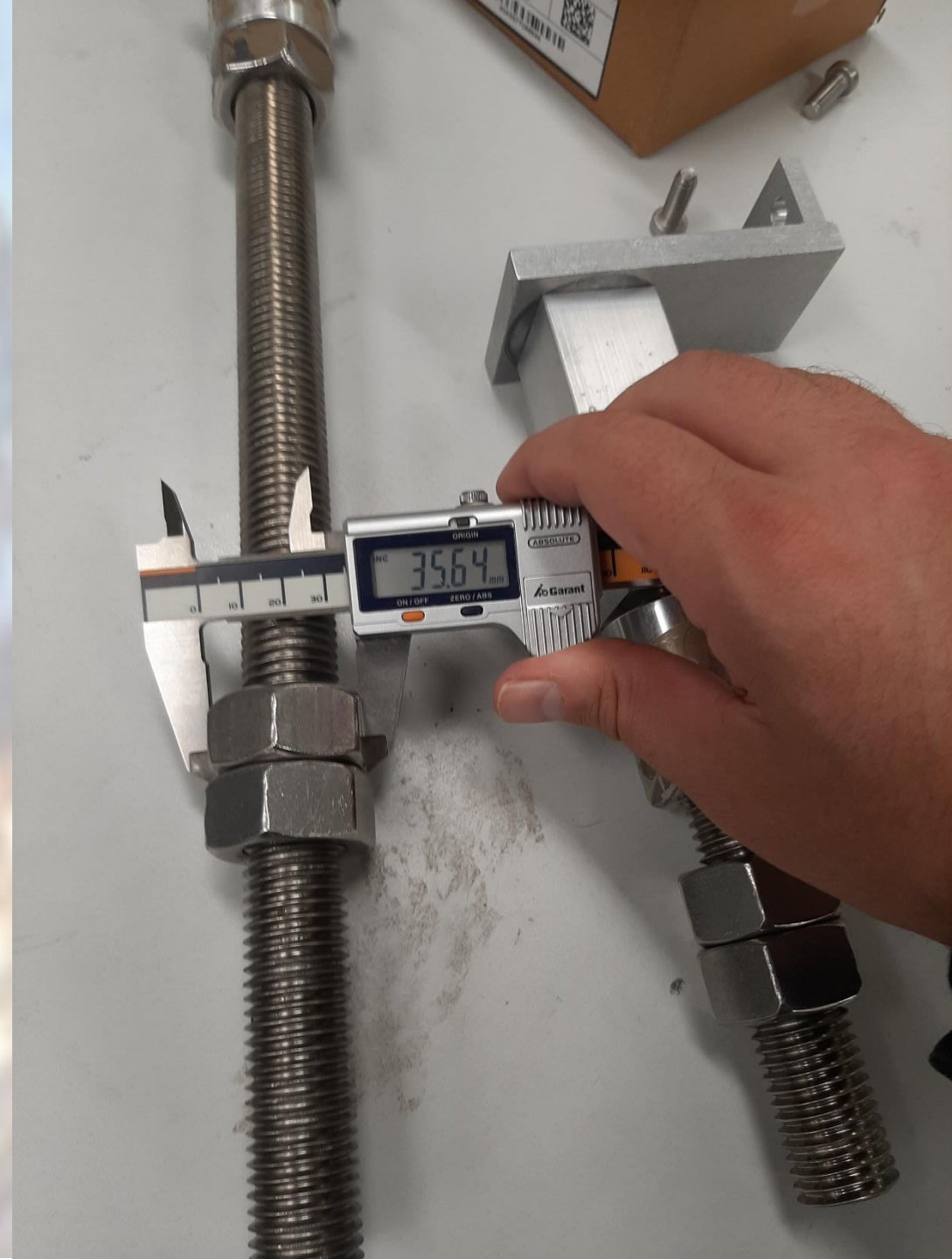


The bracket for the small radius needs to be reworked

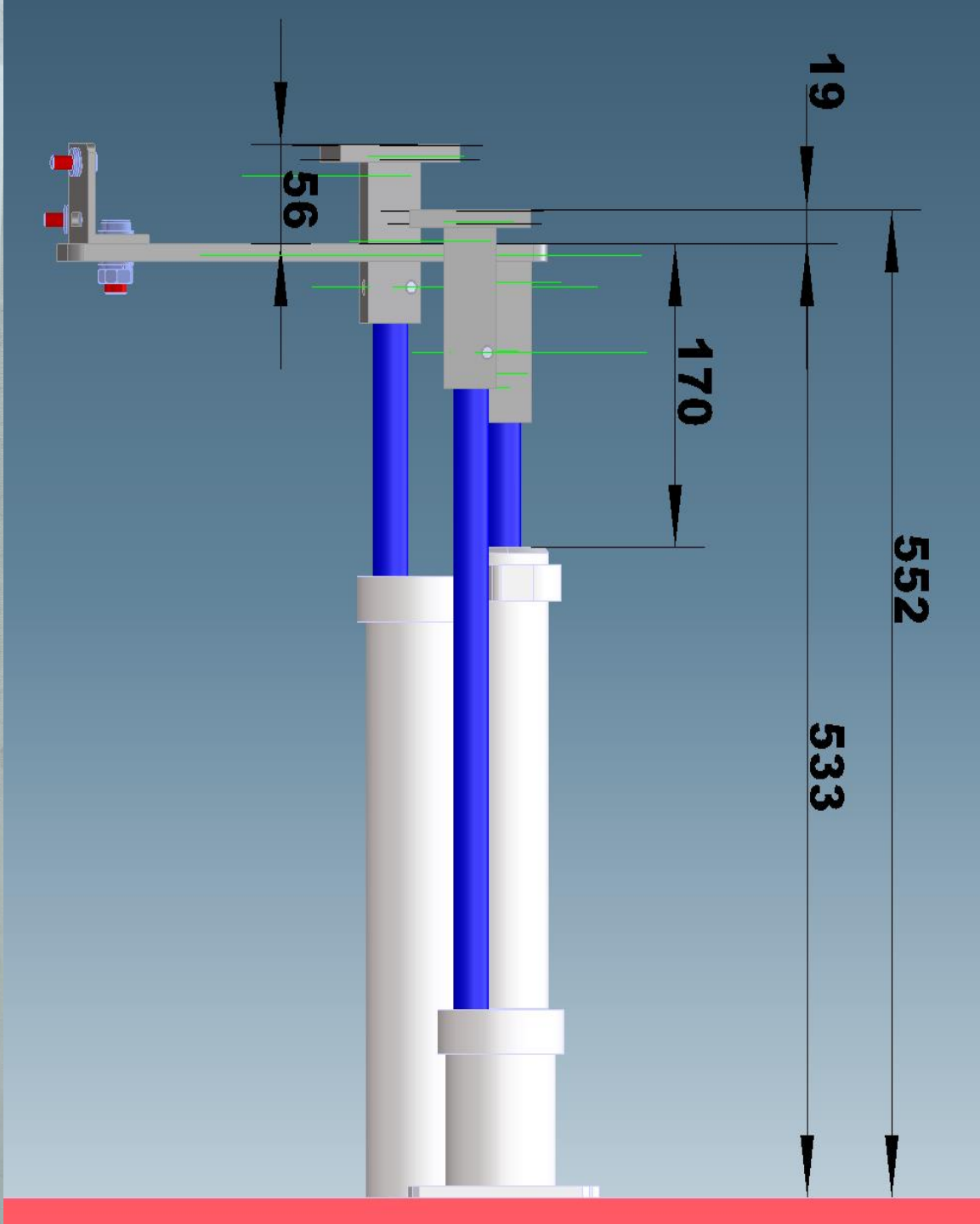




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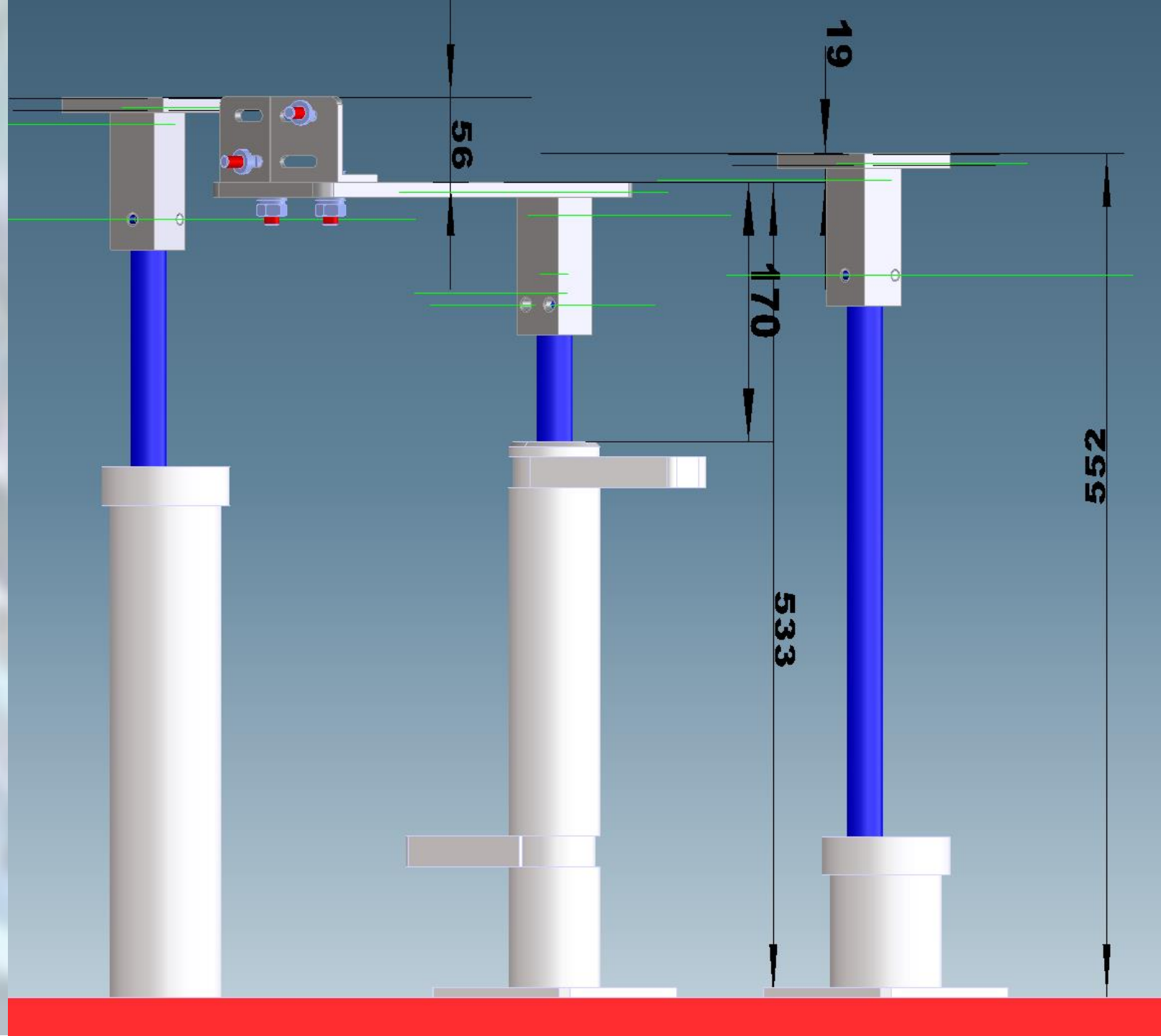


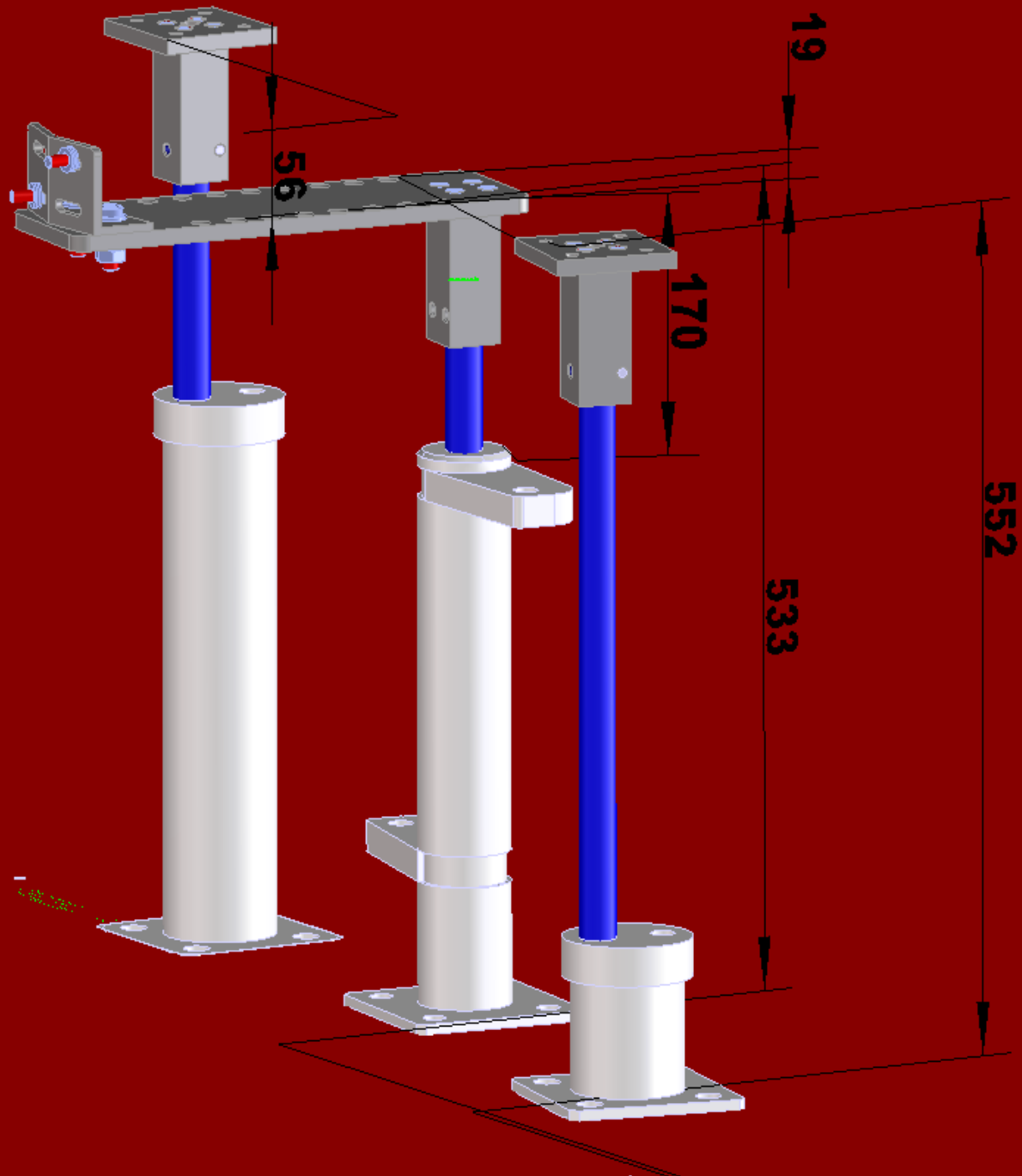
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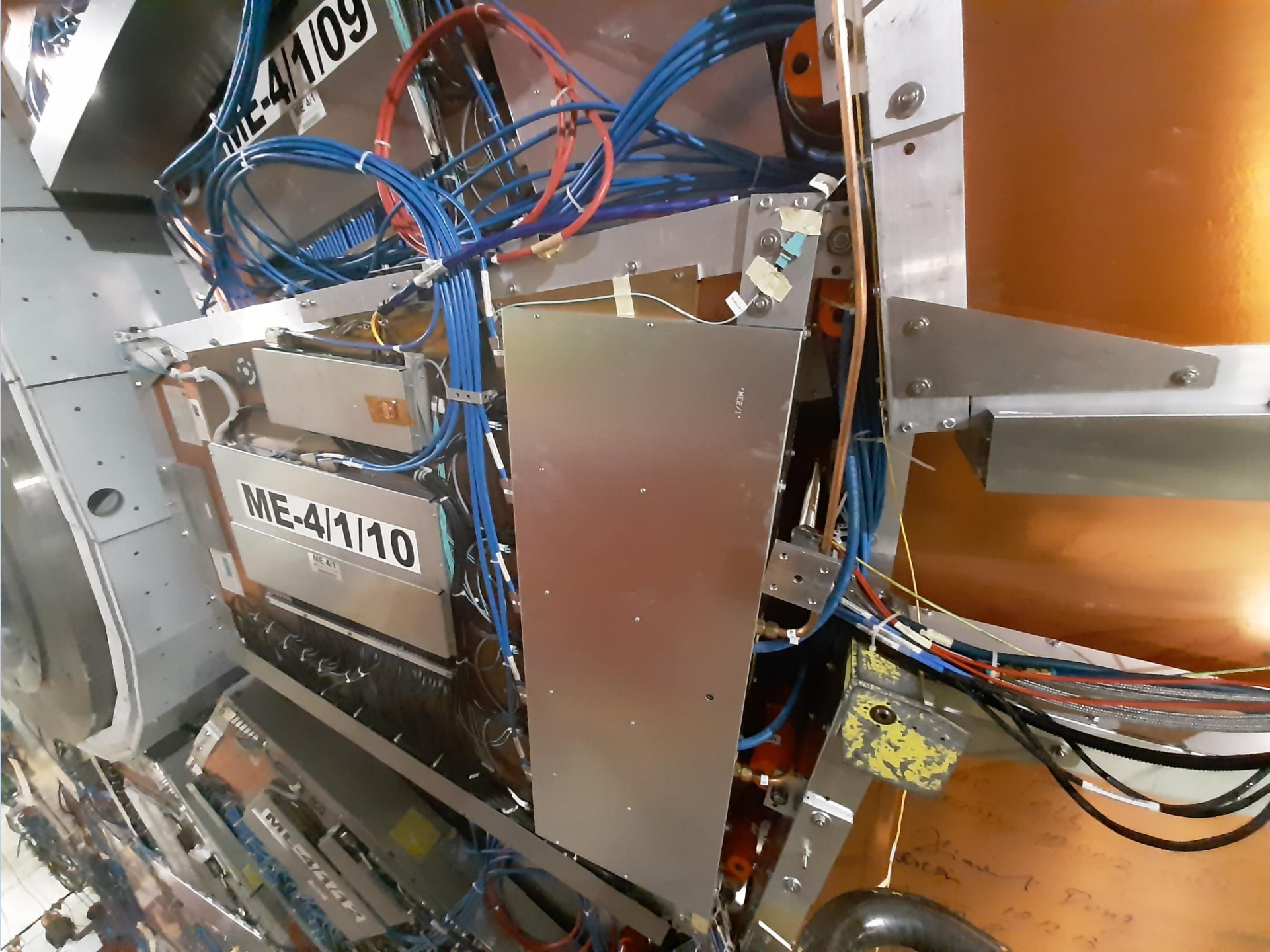
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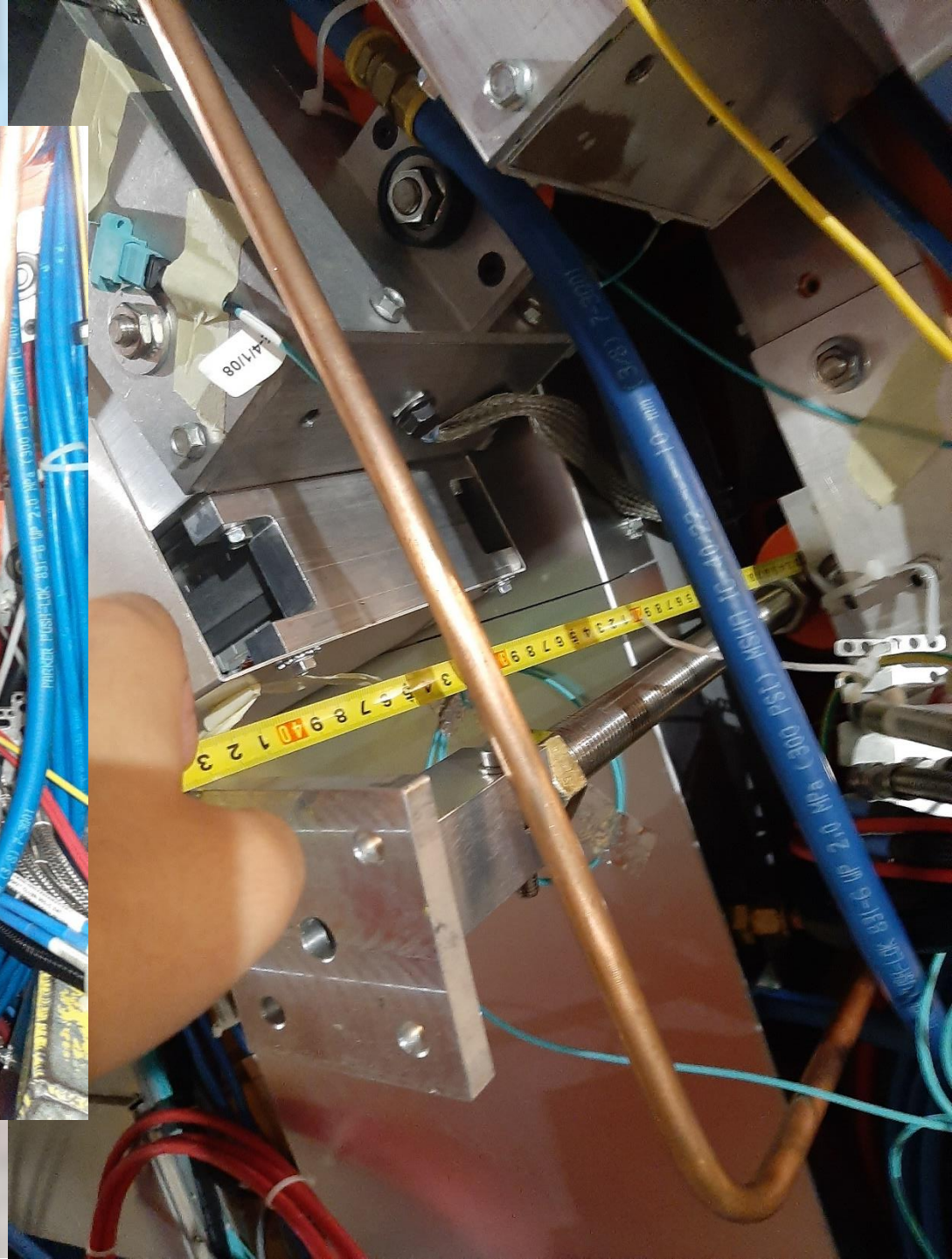
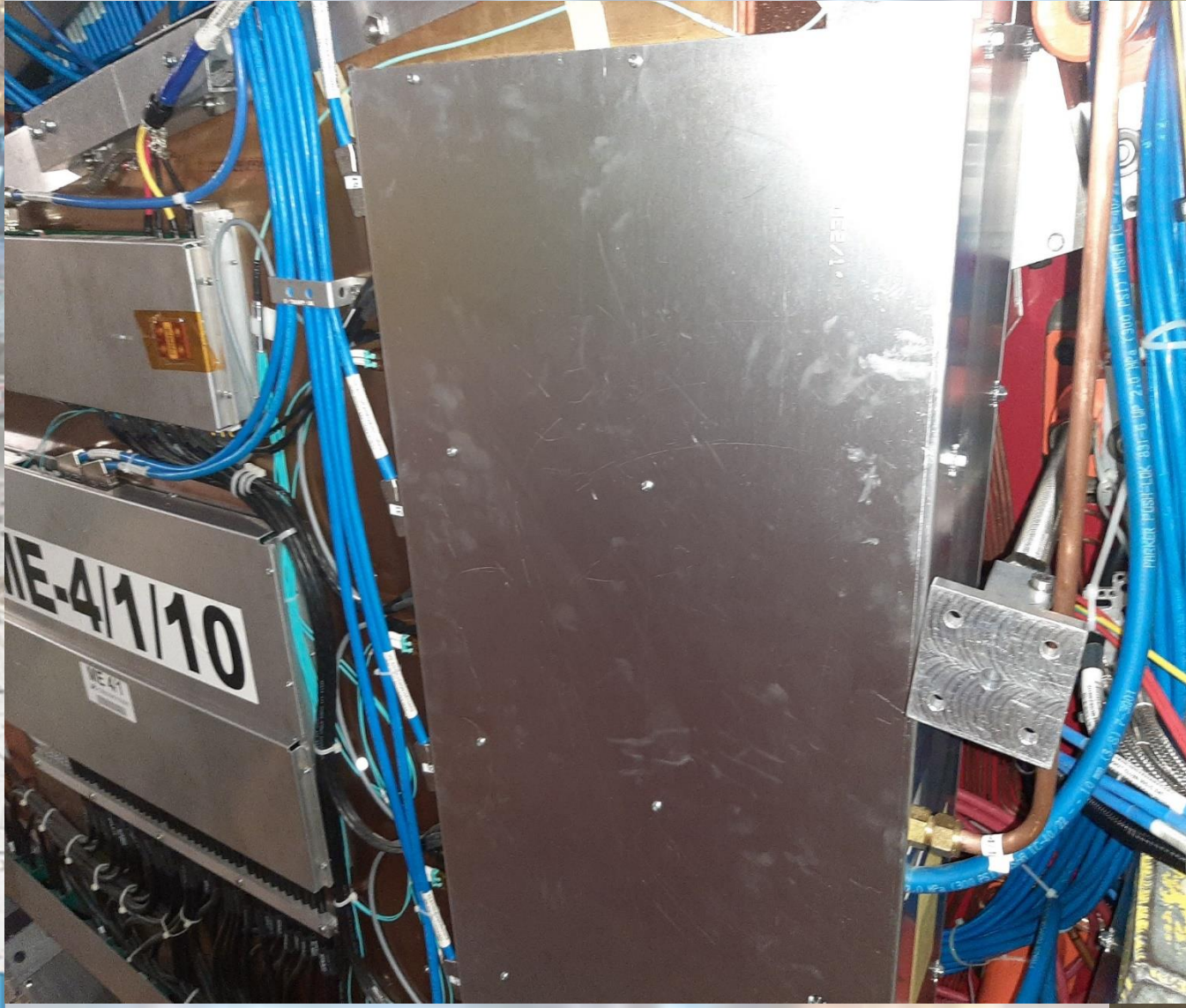




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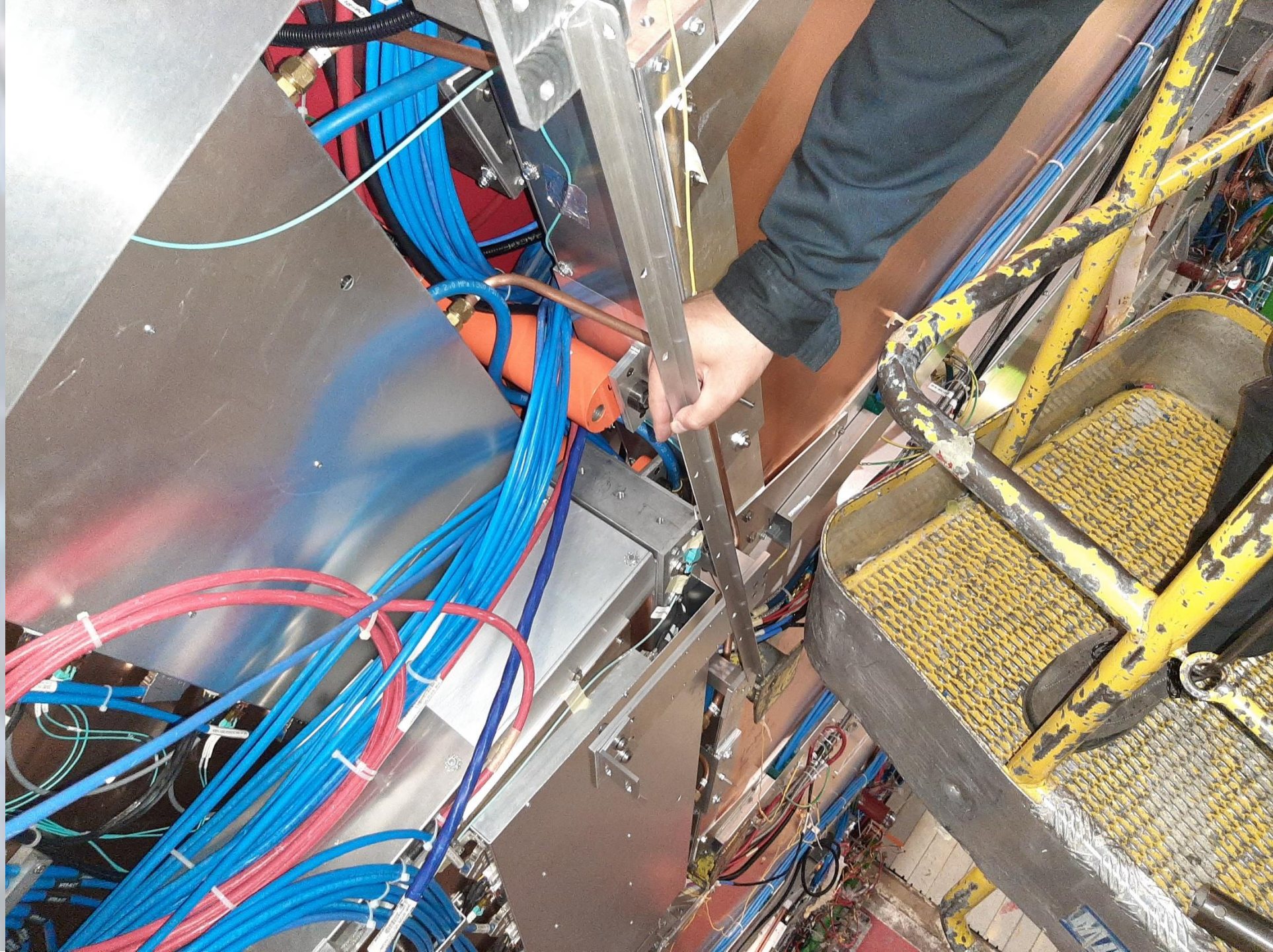
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The bracket
needs to be at
list 1cm higher

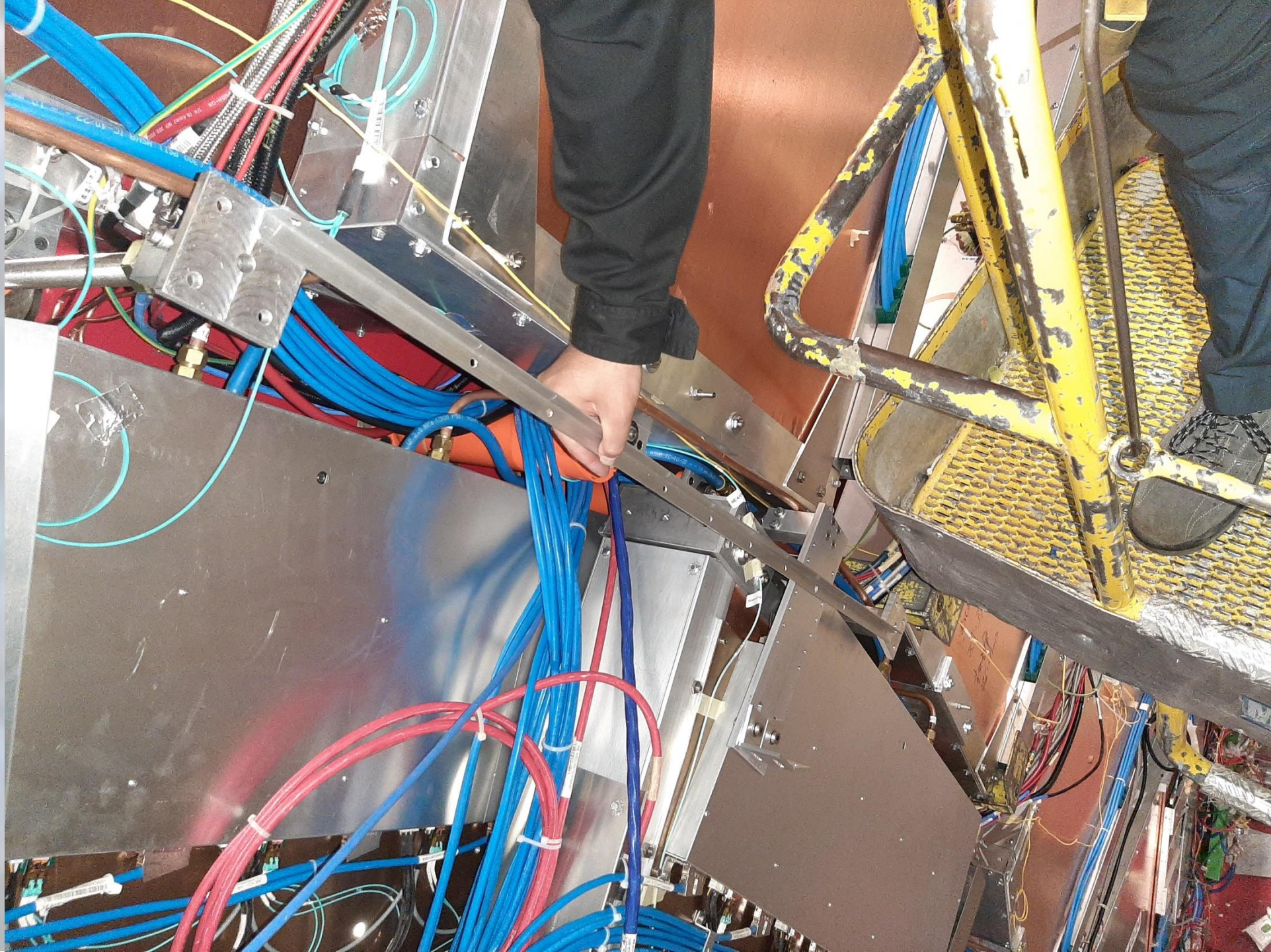




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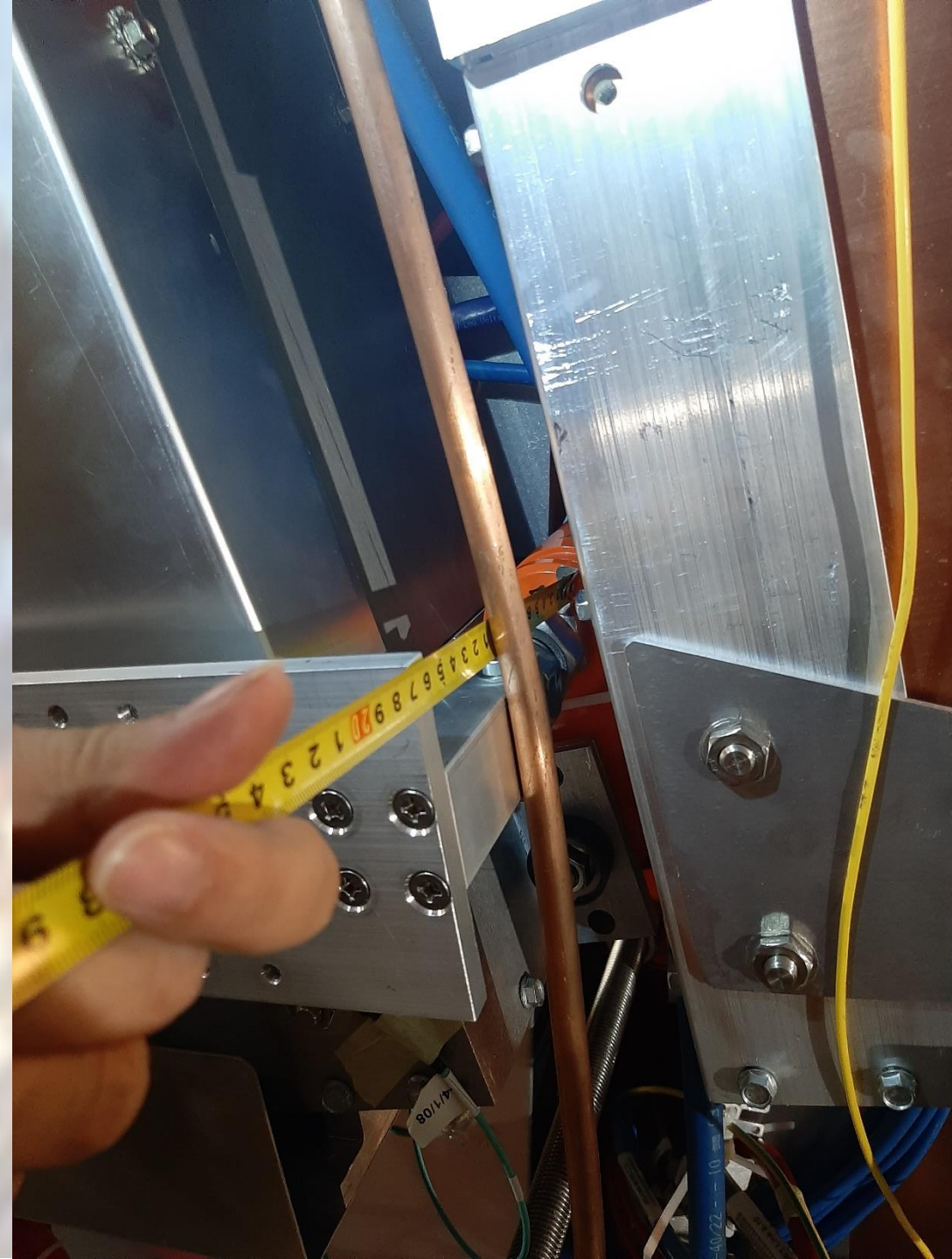


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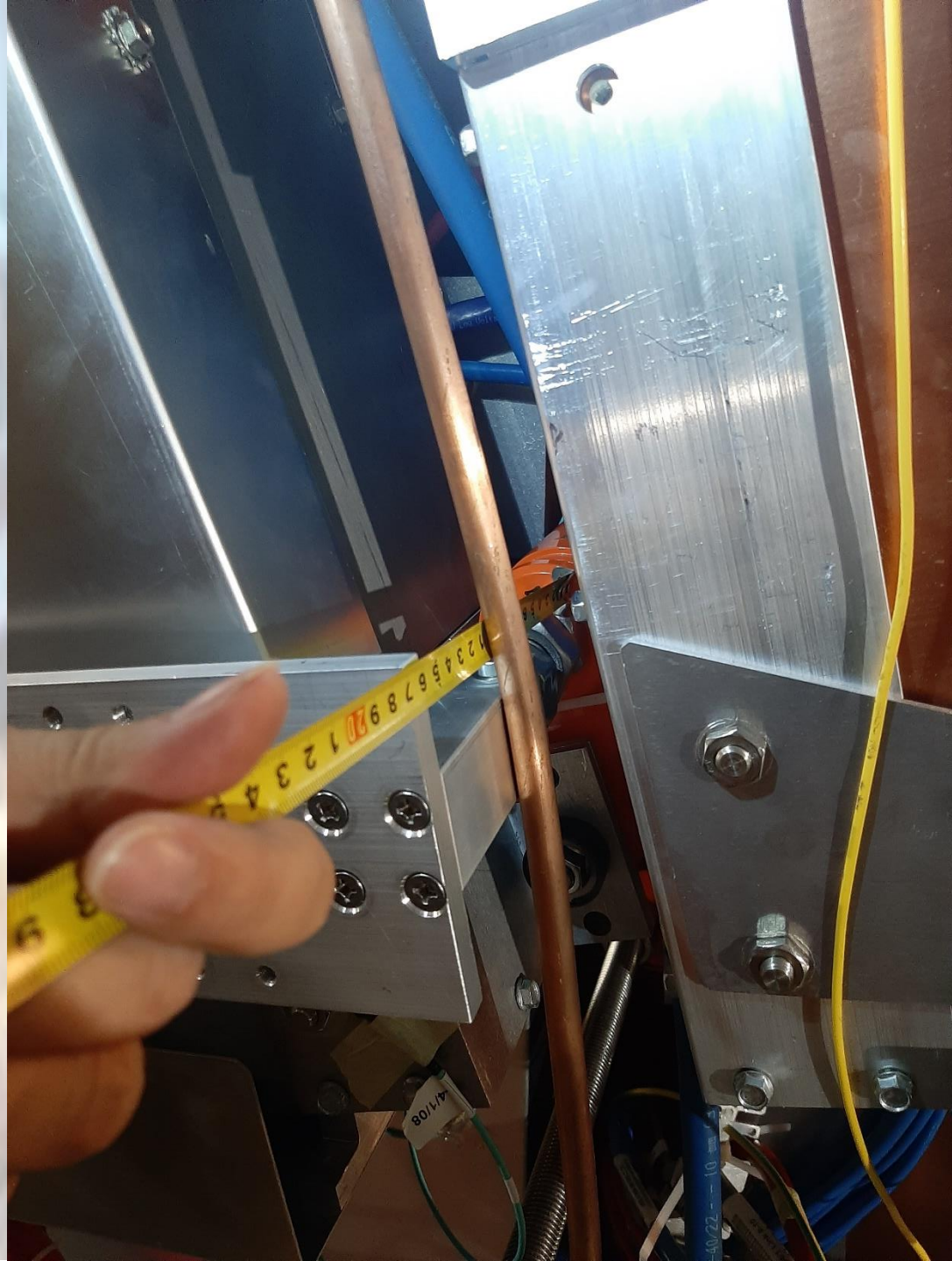


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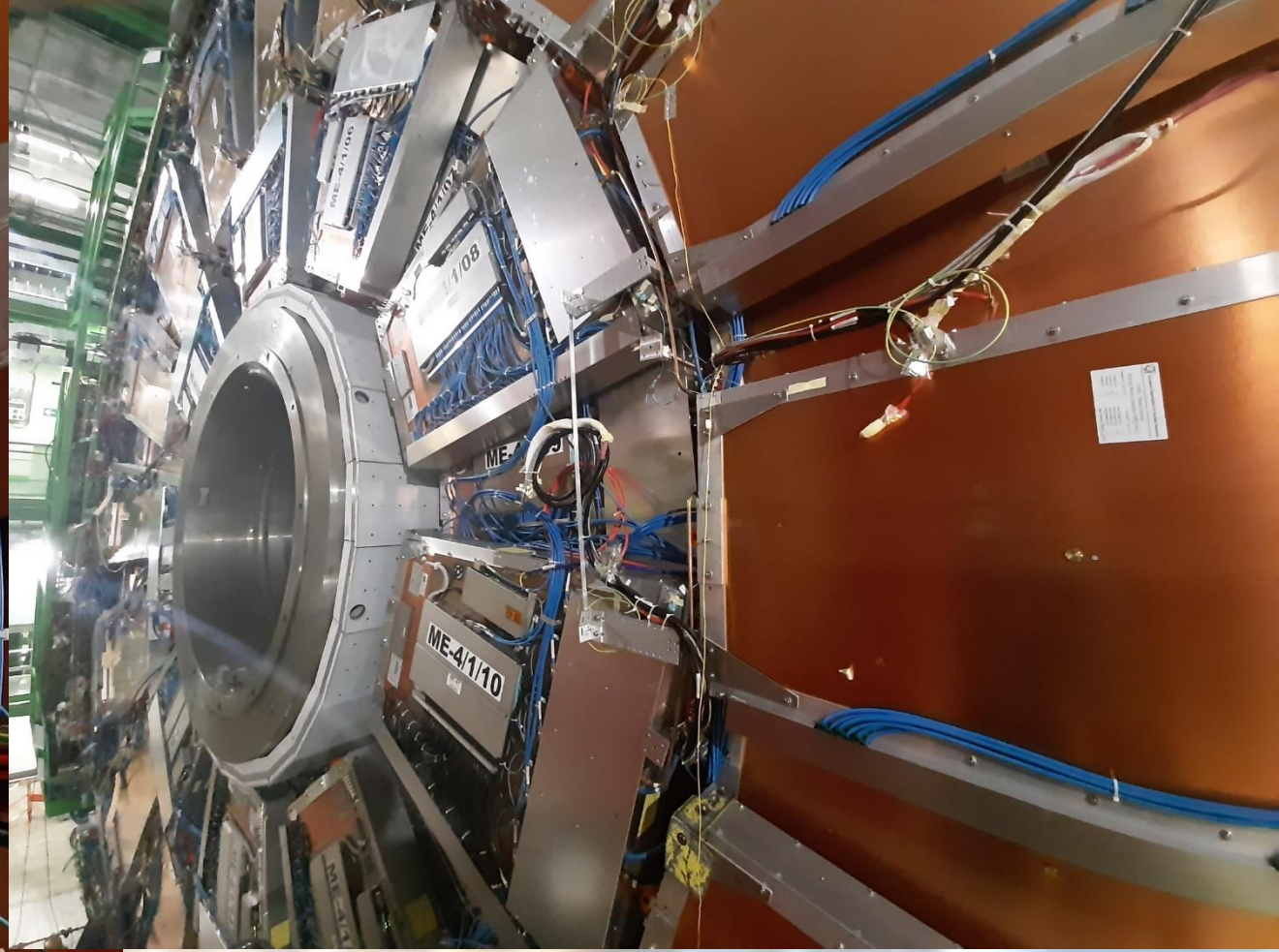
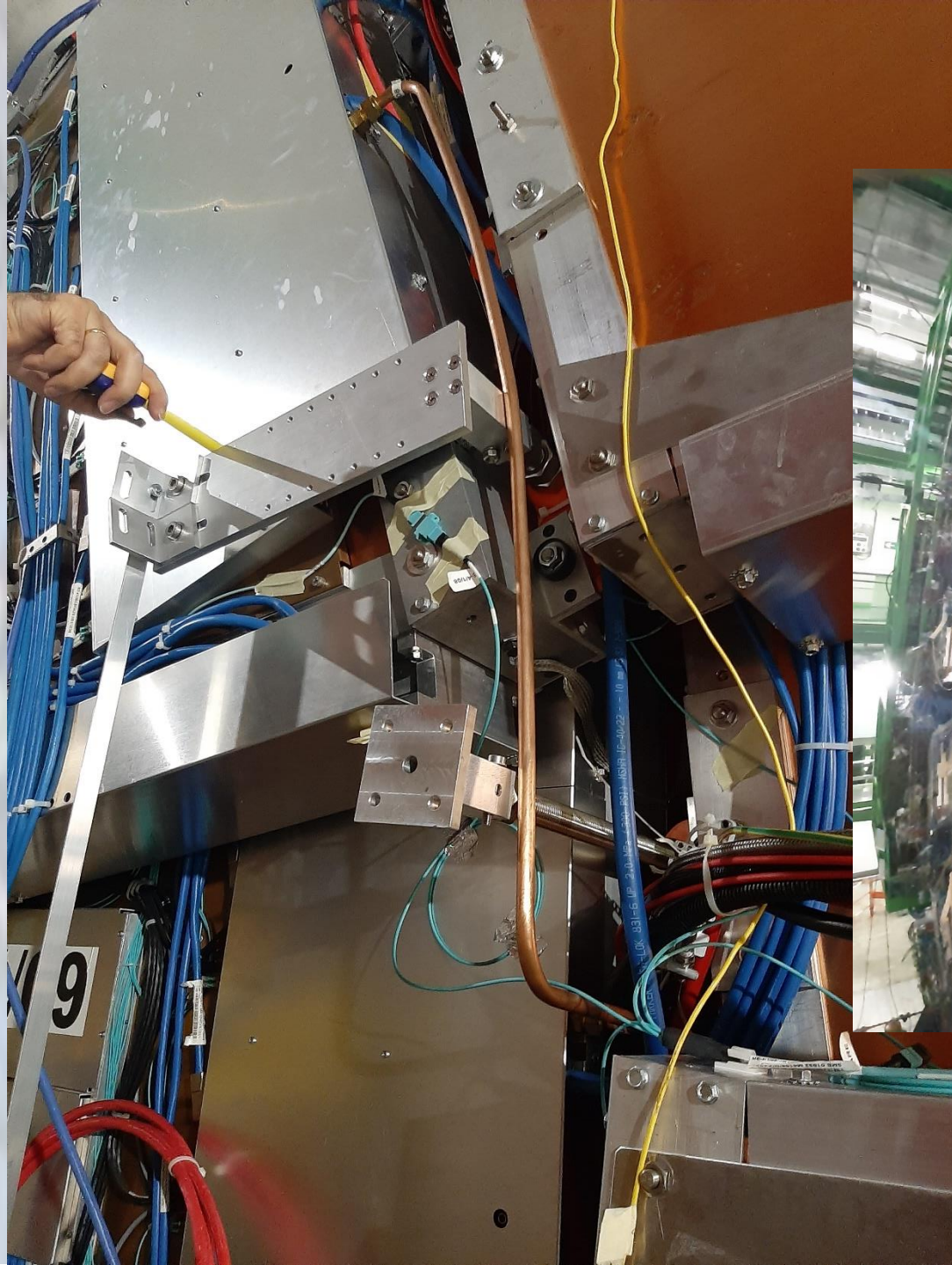


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CMS RPC – YE-4/1 Services





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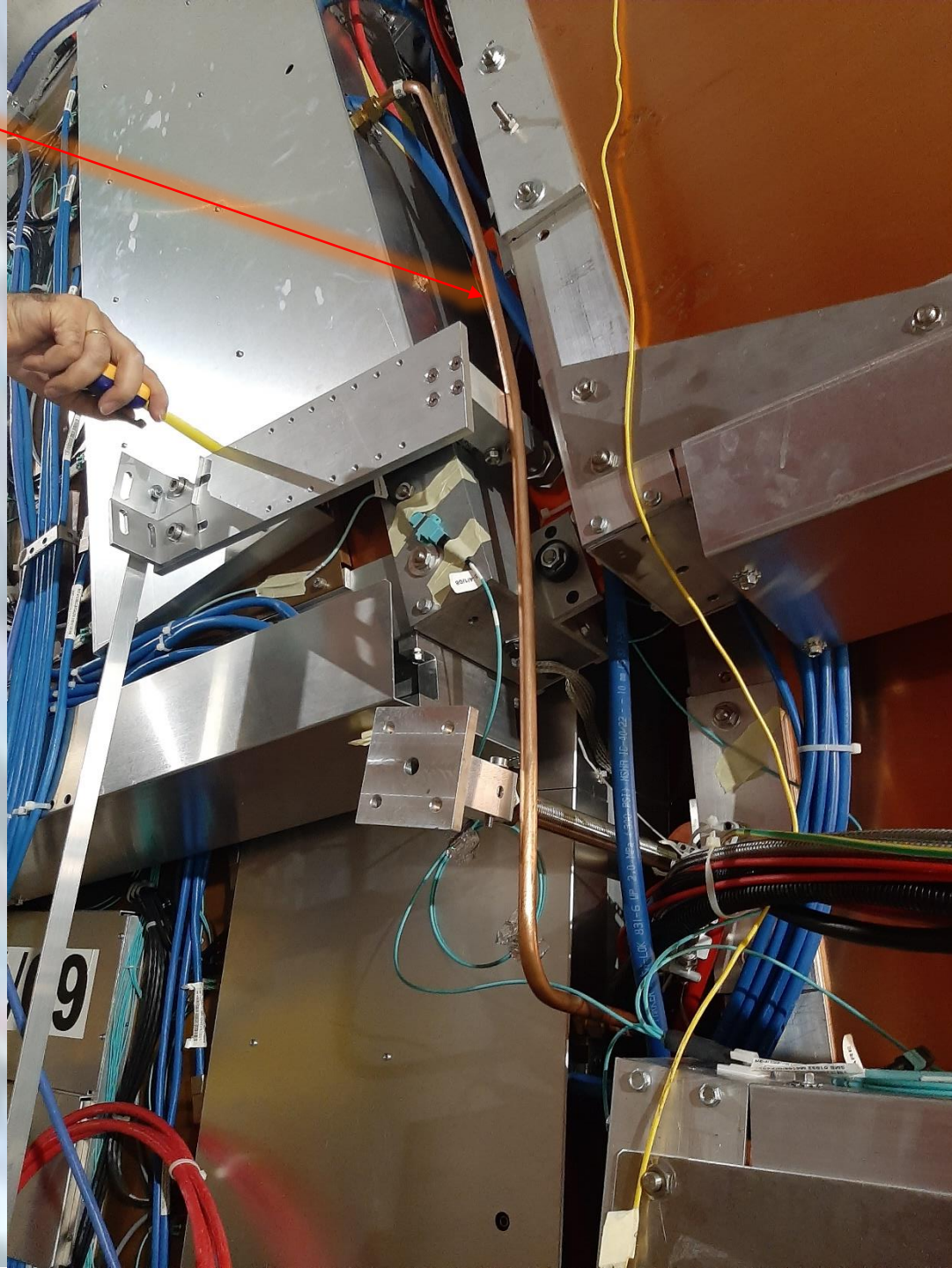


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This copper pipe is obstructing the installation of the new brackets.

Re routing the pipe or at least gas leak test is needed after installation



List of modifications

1. For the bracket on the big radius the nuts M10 needs to be replaced whit 1 thick plate (8 to 12 mm)
2. All support rods needs to be shorter with 20mm.
3. For the bracket on the big radius the elliptical holes on the L piece needs to be re work for the new detectors (25mm ->27mm)
4. For all the brackets the counter bolts M8 need to be replaced with (M7) M6 or the holes need to be bigger with 0,5 mm to 1 mm.
5. For positioning of all the support rods 2 more M24 nuts are needed.
6. The aluminum spacers can be split to 3 or 4 peace's this well reduce the need for M24 to 1 more no 2 or 3.
7. The orientation of the brackets can be don whit diagonal flat bars (20x3mm or 30x3mm). Or whit the extra nut and the spacers.
8. The Small radius bracket needs to be remade with threaded rod for cantering the detector.
9. The Small radius bracket needs have separated L peace.
10. The modifications for additional nut and spacer and 20 mm cut are valid for the support rods in the small radius.
11. Threads on the orange posts needs to be cleaned and reapplied.
12. The CSC Gas pipe needs to be modified for for long term use of the brackets.