

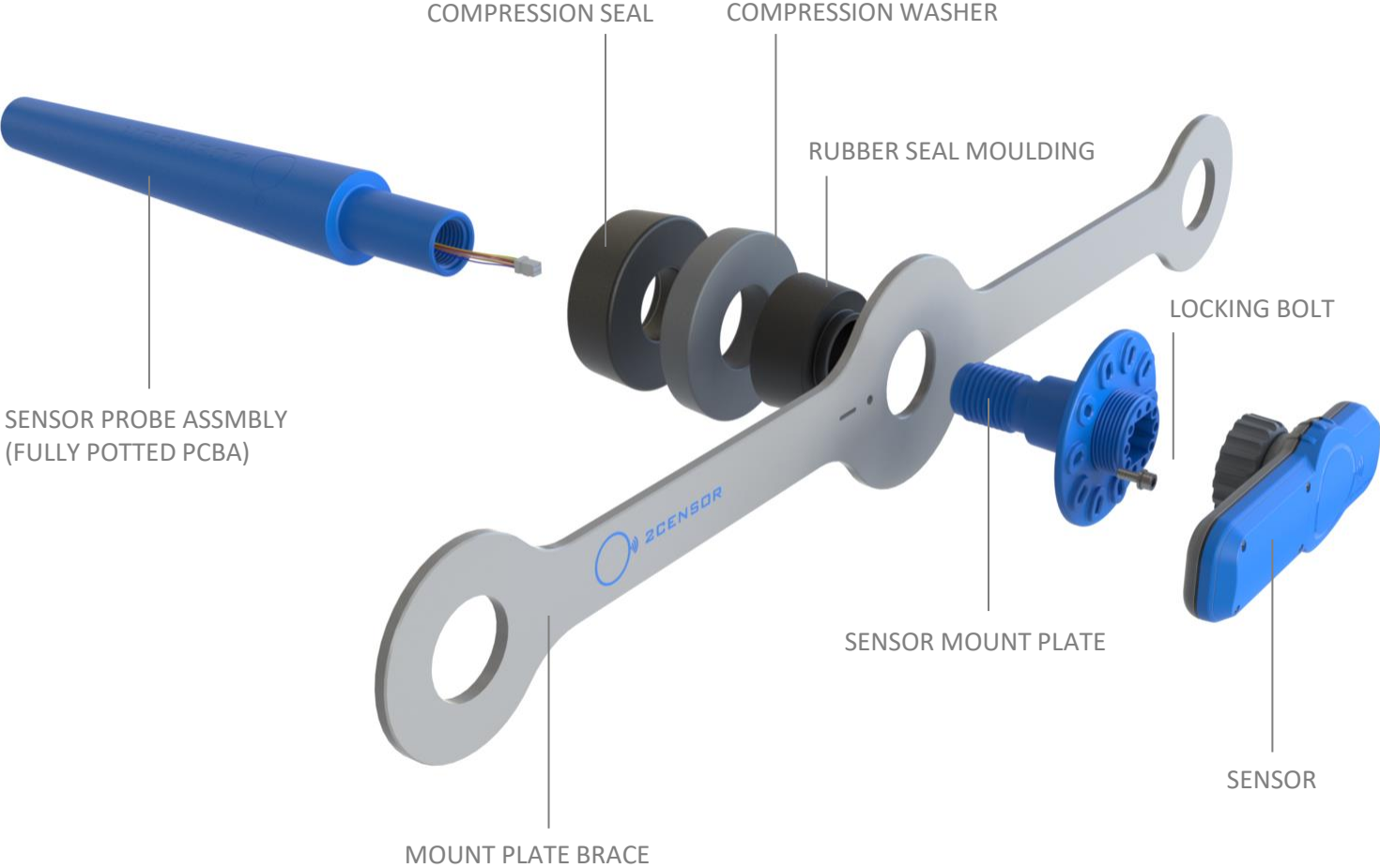


2CENSOR - MILL SENSOR DESIGN + INSTALLATION

04TH MAY 2023



SYSTEM DESIGN - OVERVIEW





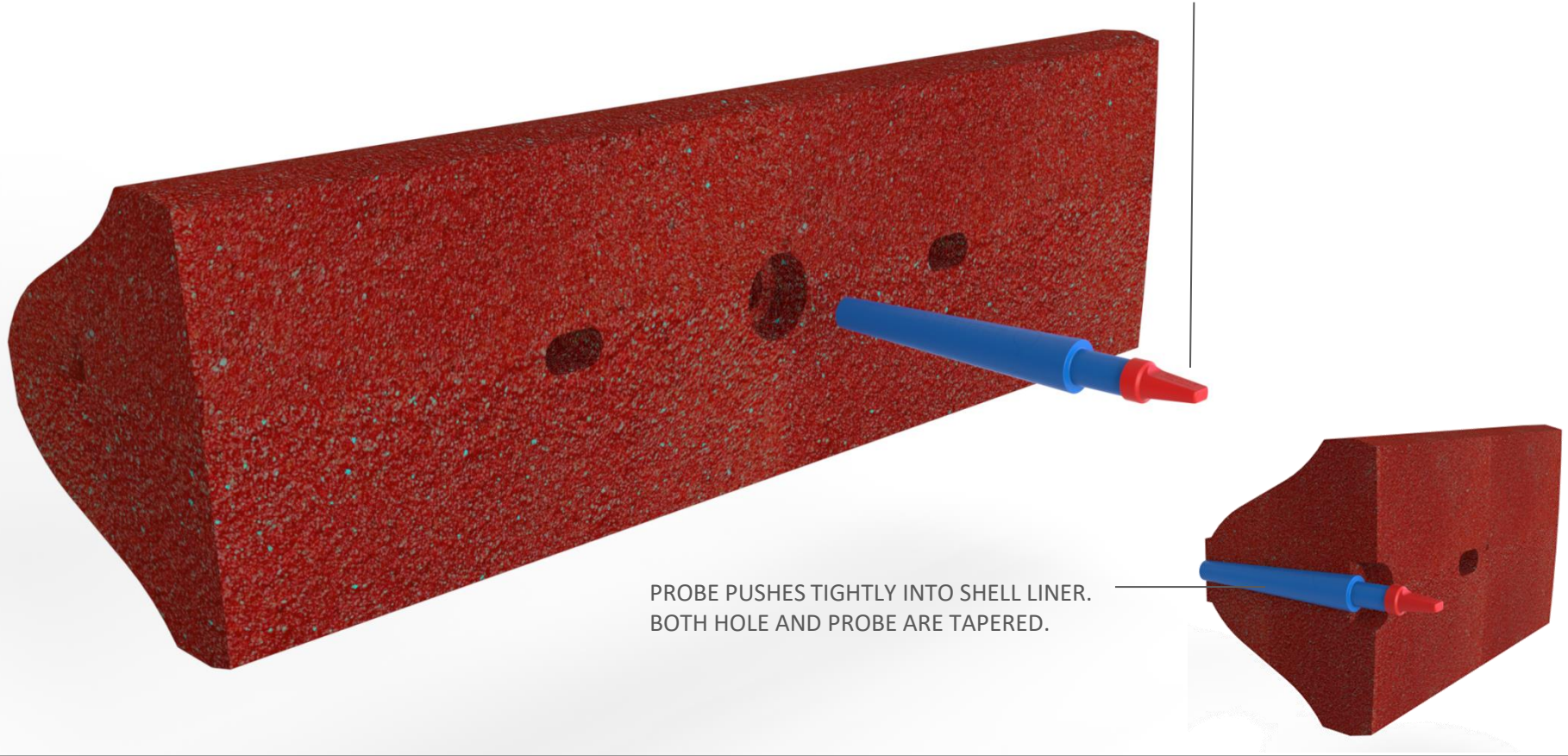
INSTALLATION STEPS



STEP 1

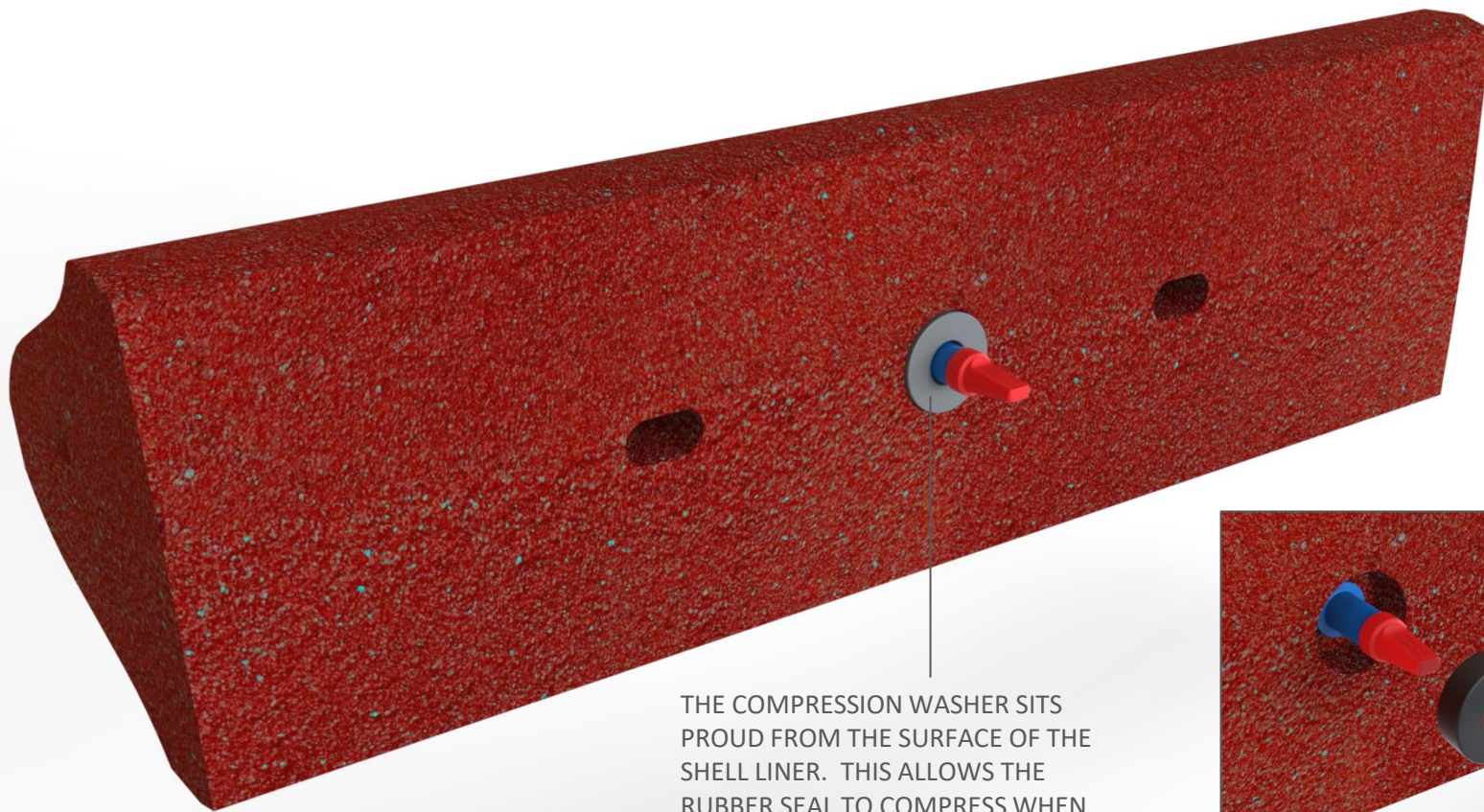
- PROBE IS INSERTED INTO BACK OF SHELL LINER
- PROBE IS A TAPERED PUSH FIT

PROBE SUPPLIED WITH PROTECTIVE PLASTIC TIP FITTED (RED PART) – THIS IS TO PREVENT DAMAGE TO THE PCBA WIRING + CONNECTOR. IT ALSO HELPS GUIDE THE PROBE END THROUGH THE MILL DRUM WALL

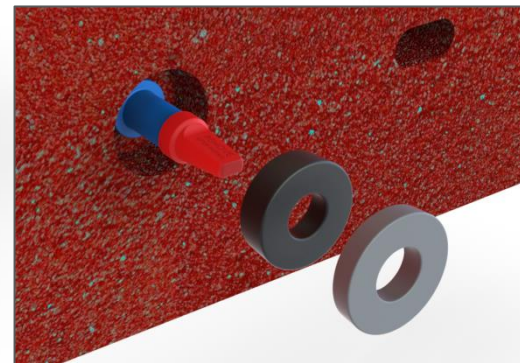


STEP 2

- FIT RUBBER COMPRESSION SEAL + COMPRESSION WASHER ONTO END OF SEATED PROBE

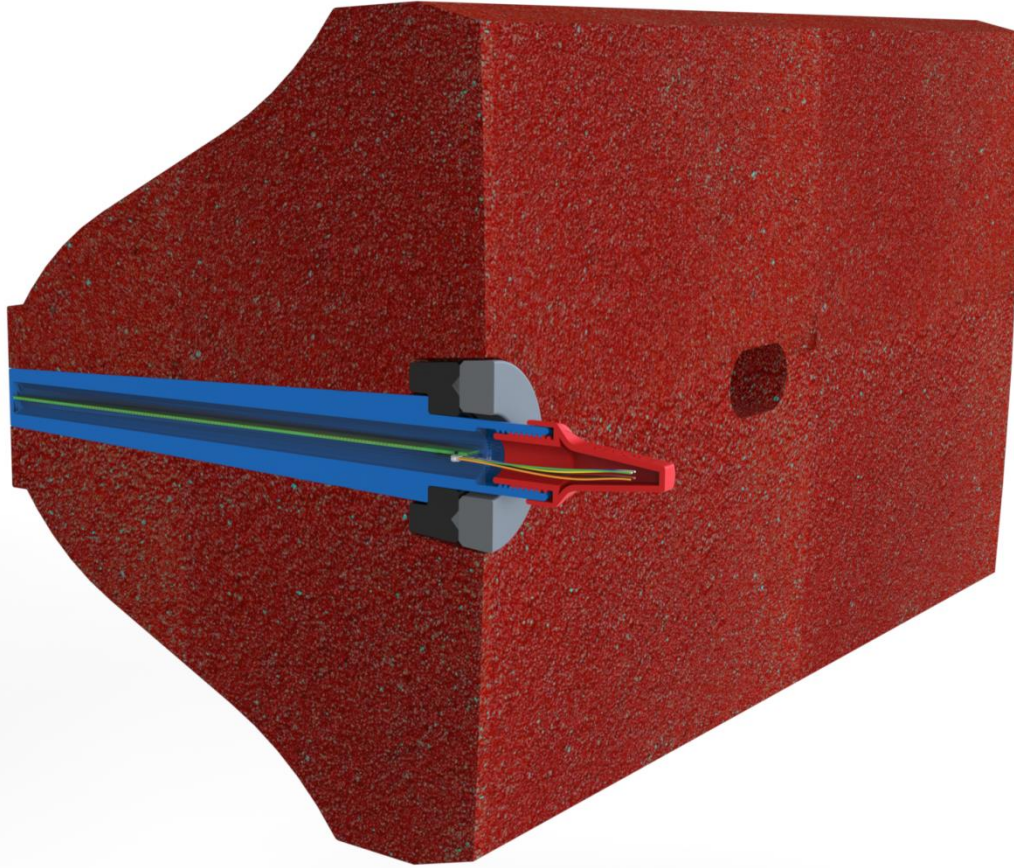


THE COMPRESSION WASHER SITS PROUD FROM THE SURFACE OF THE SHELL LINER. THIS ALLOWS THE RUBBER SEAL TO COMPRESS WHEN BOLTED TO THE MILL DRUM WALL



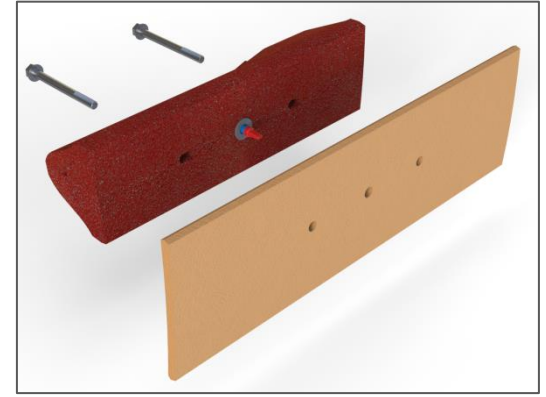
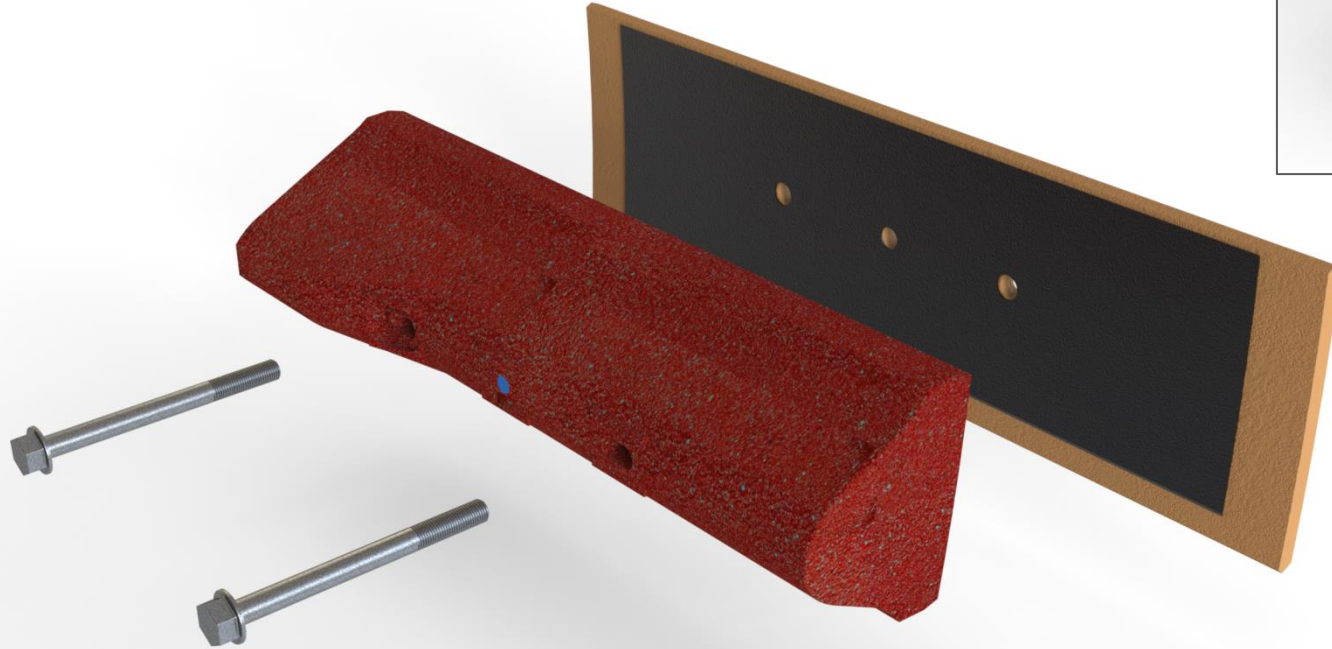
STEP 2

- CUT THROUGH ASSEMBLY



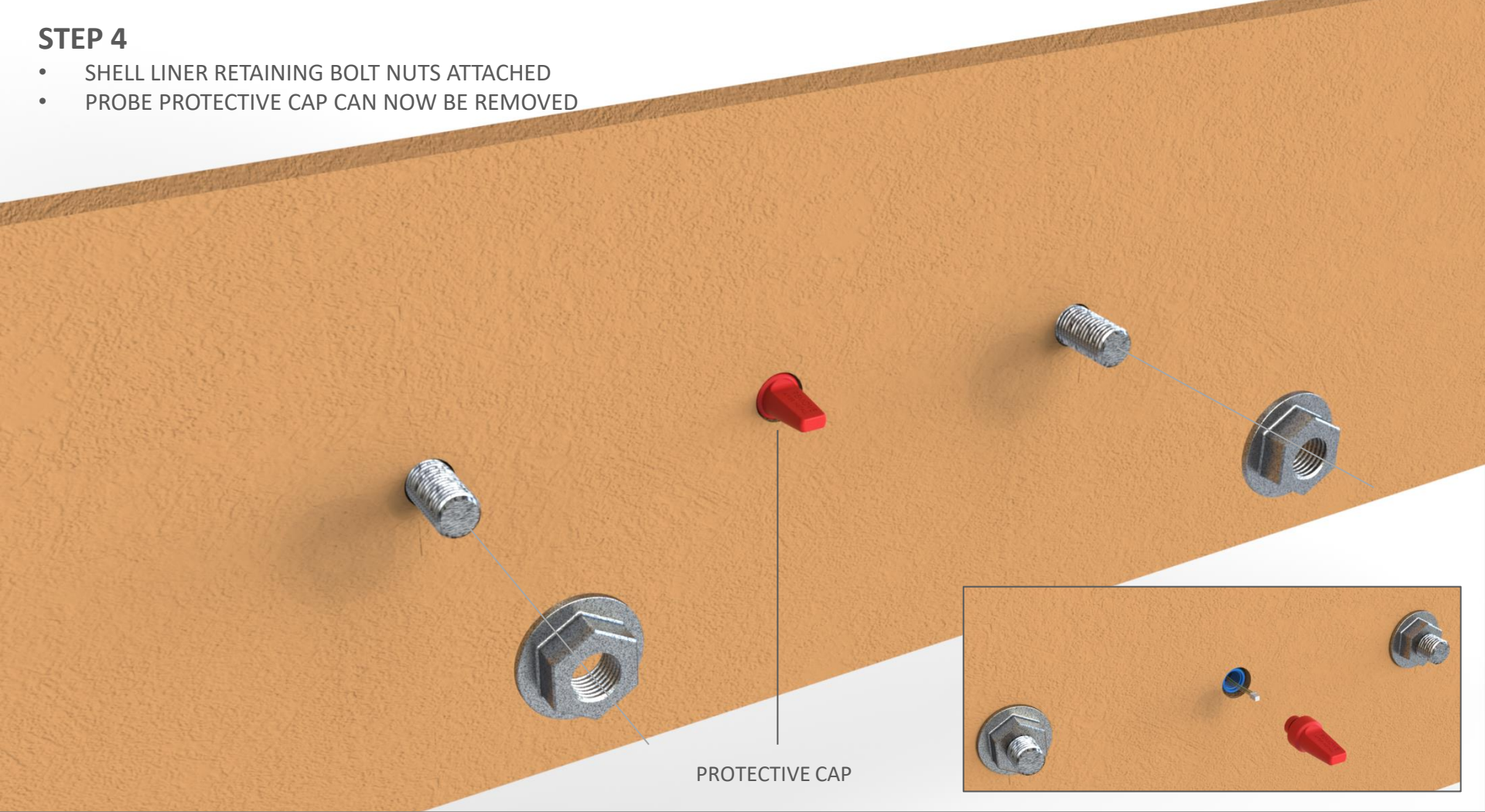
STEP 3

- POSITION AND ALIGN SHELL LINER INSIDE MILL DRUM
- INSERT FIXING BOLTS THROUGH SHELL LINER AND MILL DRUM WALL



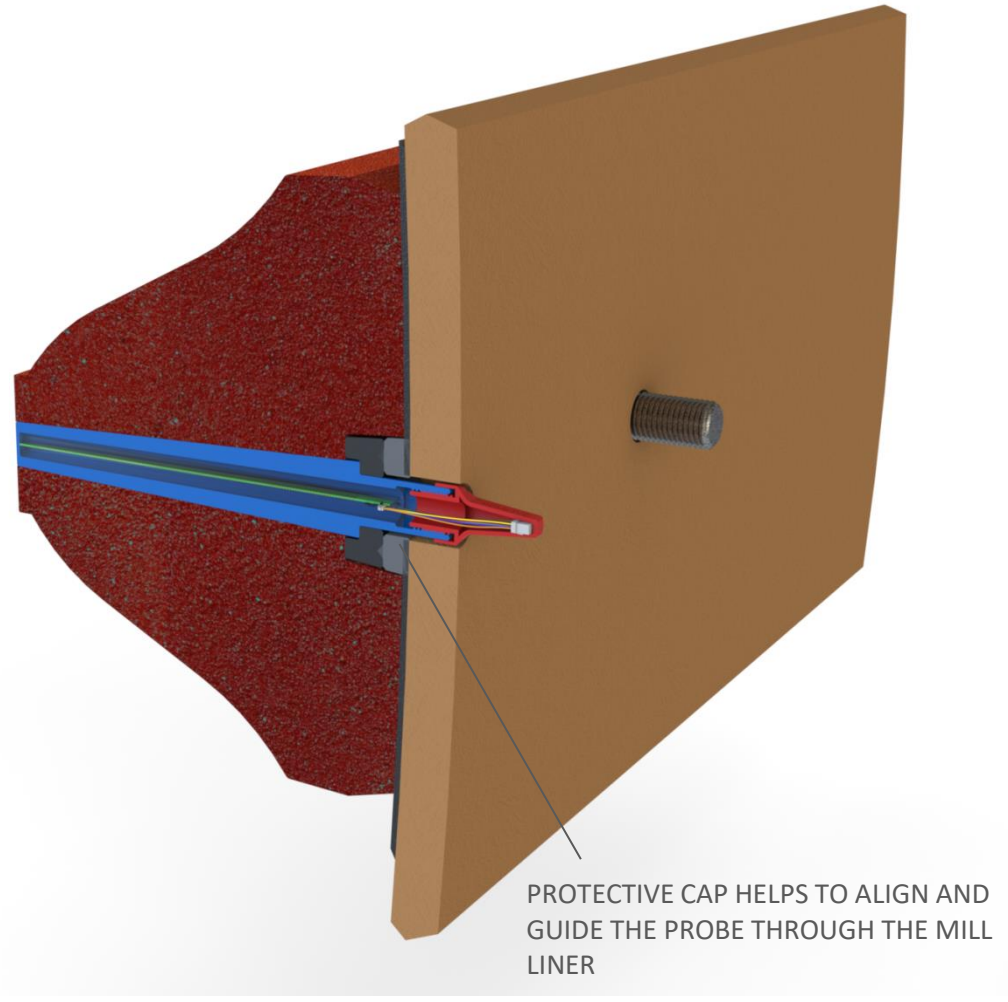
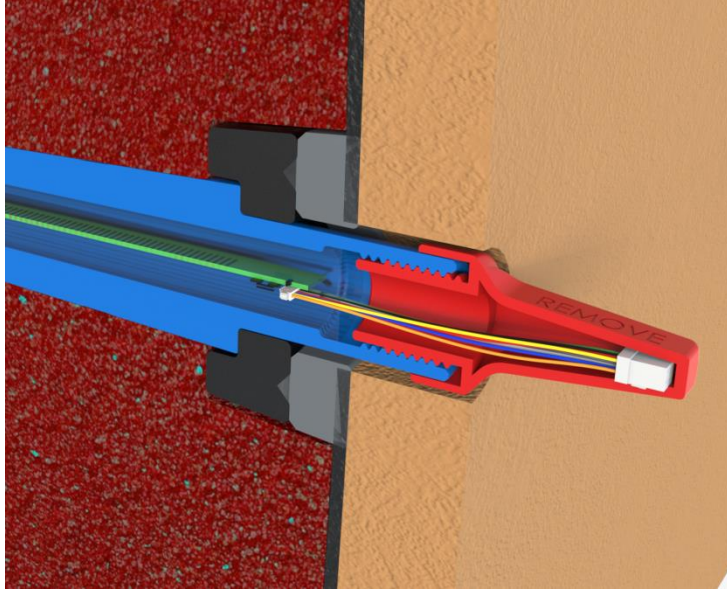
STEP 4

- SHELL LINER RETAINING BOLT NUTS ATTACHED
- PROBE PROTECTIVE CAP CAN NOW BE REMOVED



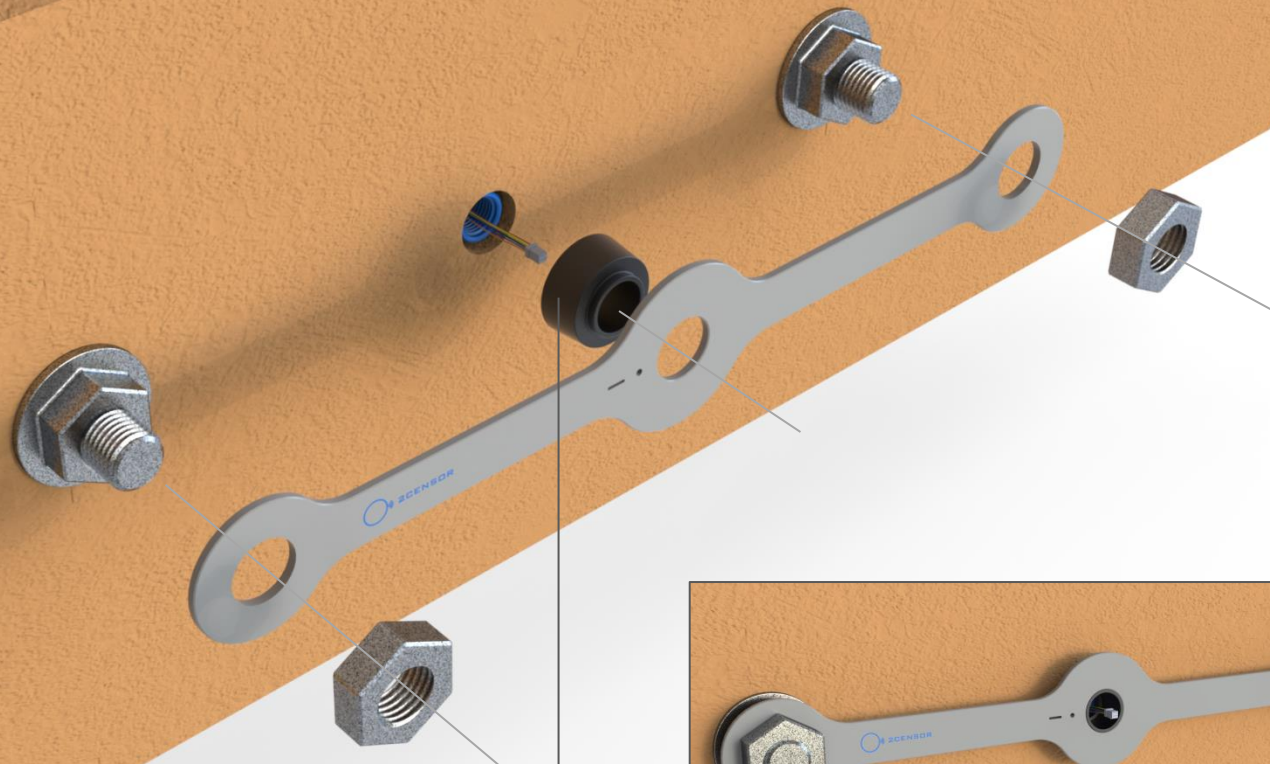
STEP 4

- CUT THROUGH ASSEMBLY



STEP 5

- POSITION RUBBER COMPRESSION SEAL ONTO END OF PROBE
- POSITION MOUNT PLATE BRACE ONTO SHELL LINER BOLTS

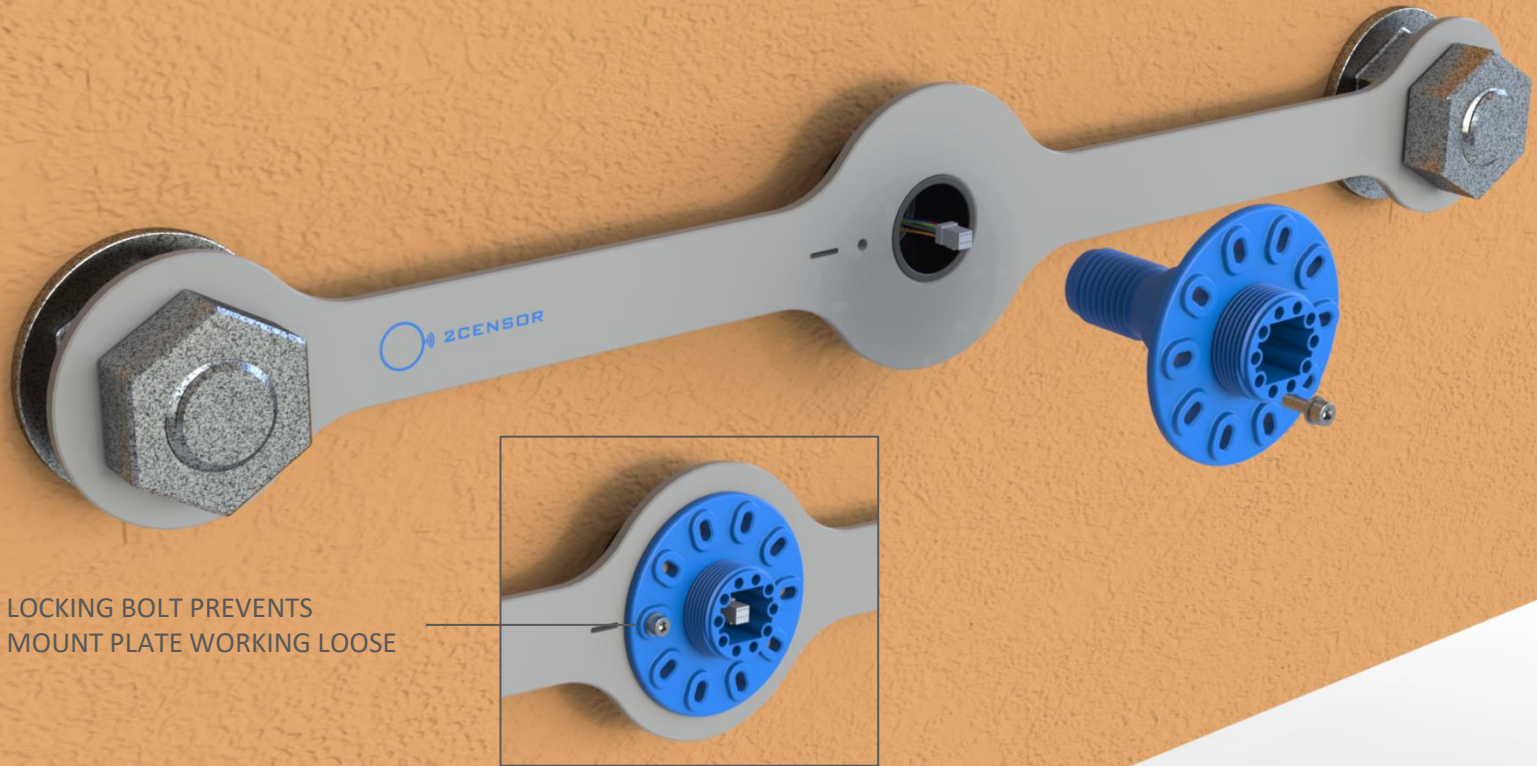


RUBBER SEAL MOULDING IS COMPRESSED
WHEN THE BRACE IS BOLTED DOWN



STEP 6

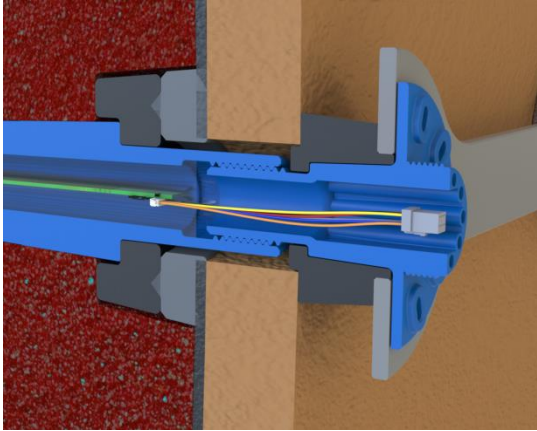
- SCREW SENSOR MOUNT PLATE INTO END OF PROBE.
- LOCK MOUNT PLATE ONTO MOUNT PLATE BRACK WITH M6 BOLT



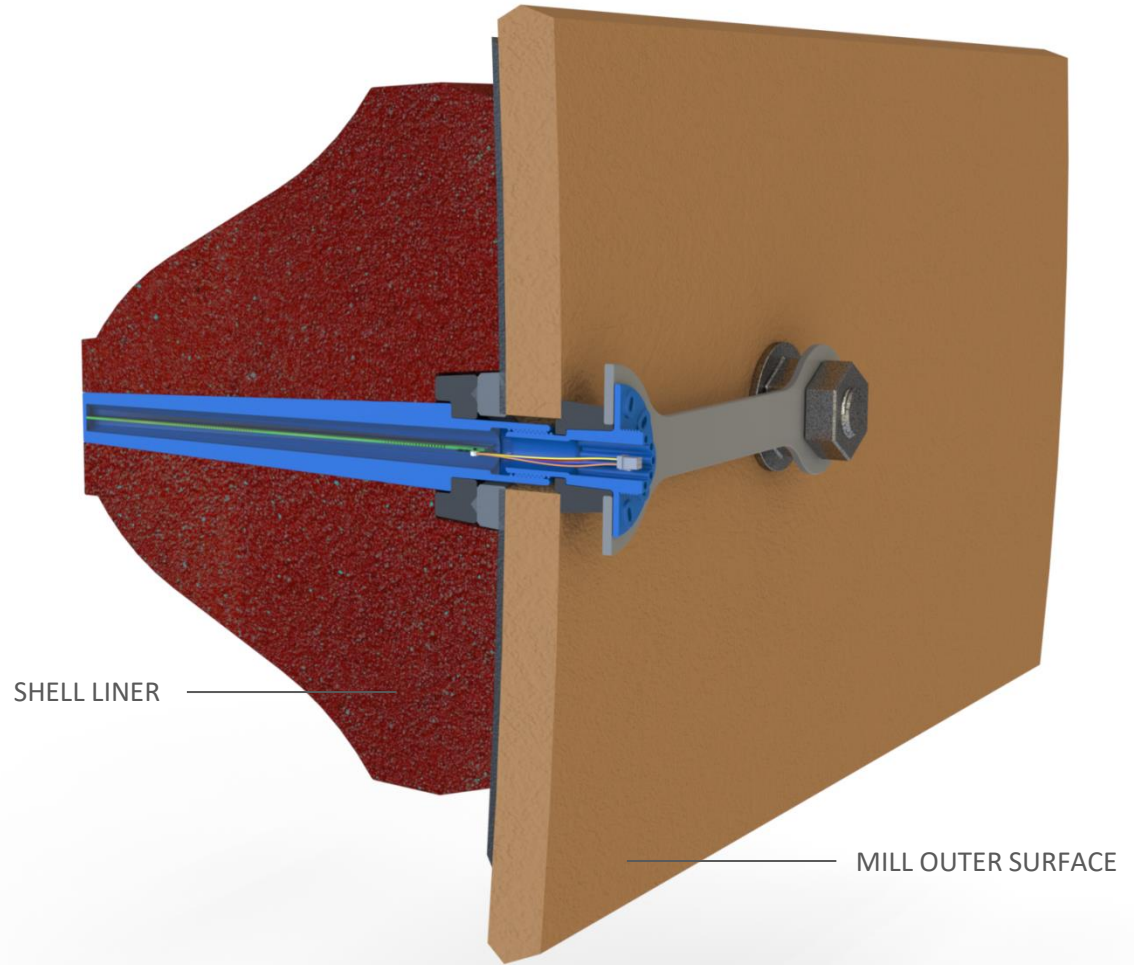
LOCKING BOLT PREVENTS
MOUNT PLATE WORKING LOOSE

STEP 6

- CUT THROUGH ASSEMBLY

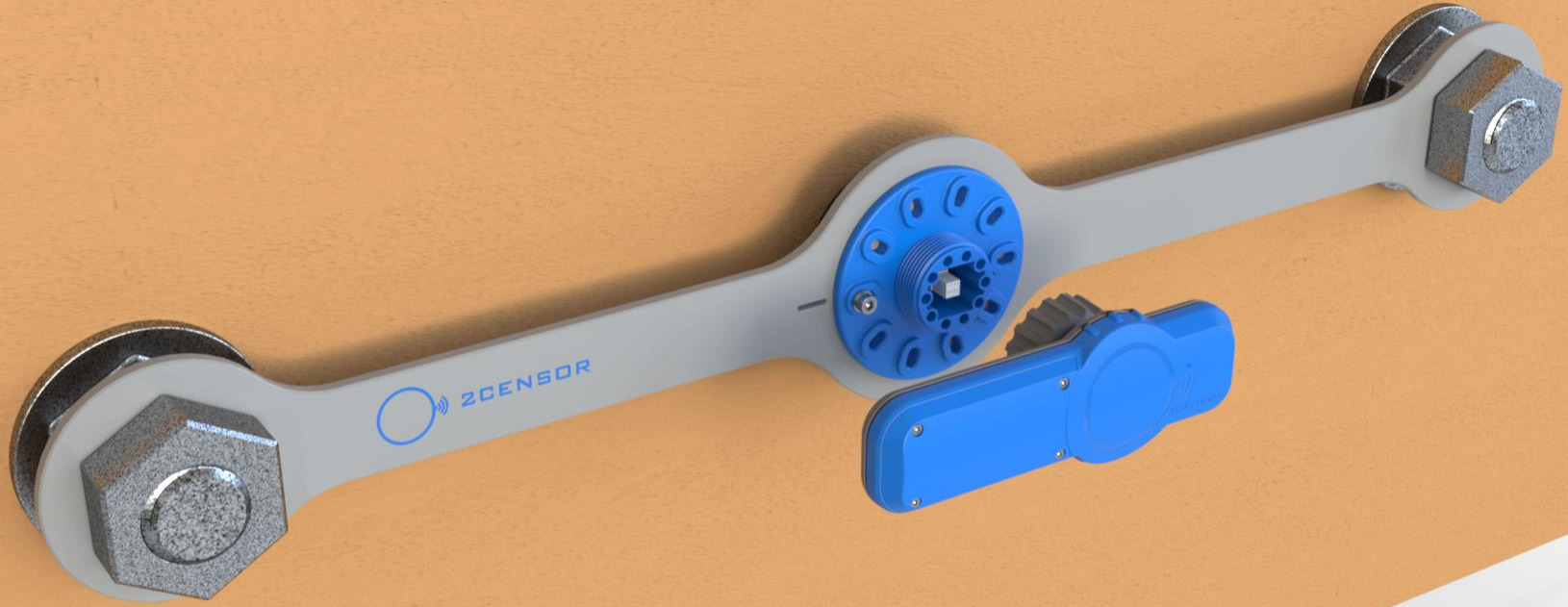


SENSOR MOUNT PLATE MOULDING
SCREWS DIRECTLY INTO PROBE
MOULDING TO CREATE A GOOD SEAL
BETWEEN THE TWO PARTS



STEP 7

- CONNECT SENSOR TO PROBE AND SCREW SENSOR ONTO MOUNT PLATE
- ONCE SCREWED INTO POSITION, THE SYSTEM IS NOW SEAL AND WATER TIGHT



FULLY ASSEMBLED SYSTEM



FULLY ASSEMBLED SYSTEM

