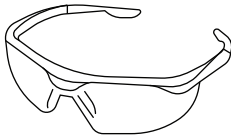


SAFETY PRECAUTIONS

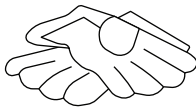
SAFETY EQUIPMENT



Helmet

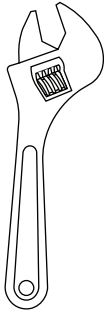


Safety glasses

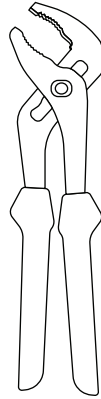


Gloves

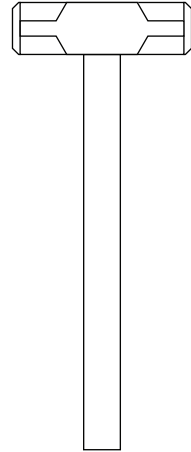
ENGINEERING HAND TOOLS



Adjustable wrench

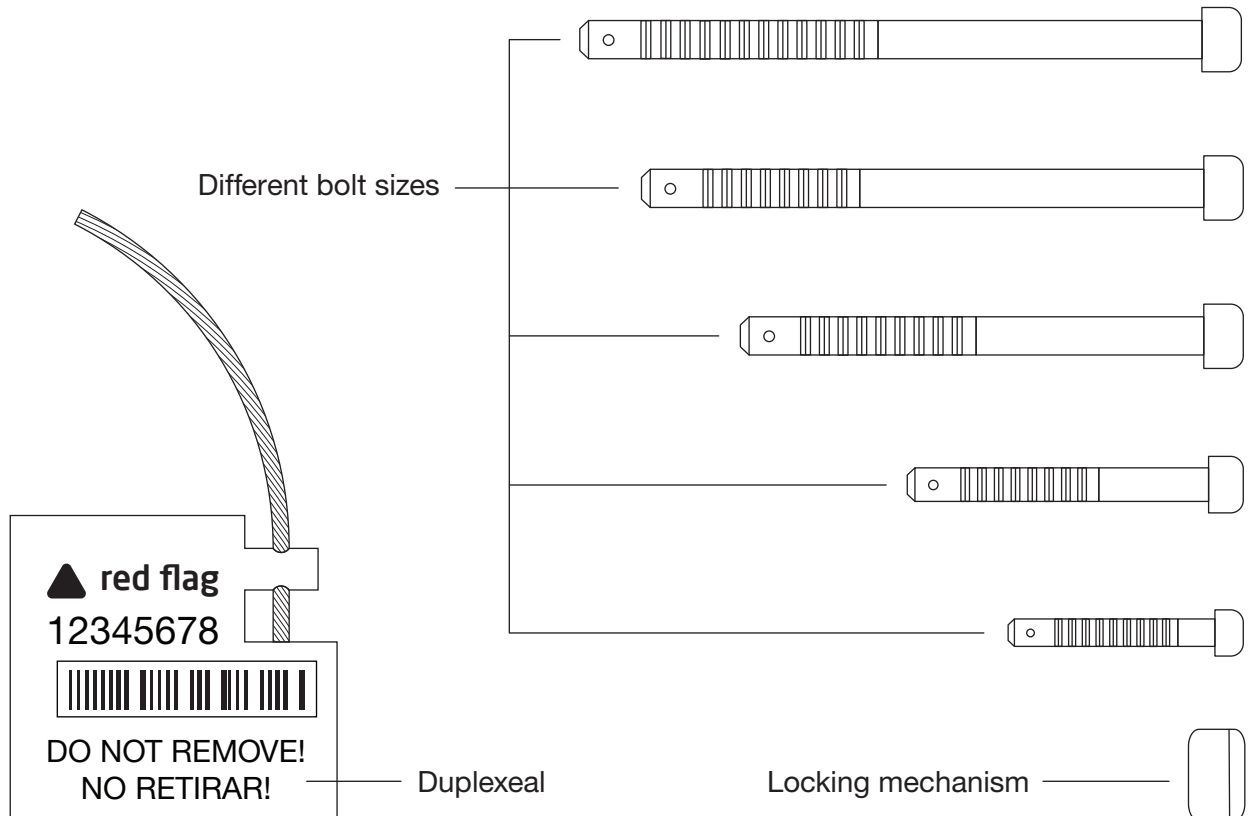


Tongue-and-groove pliers

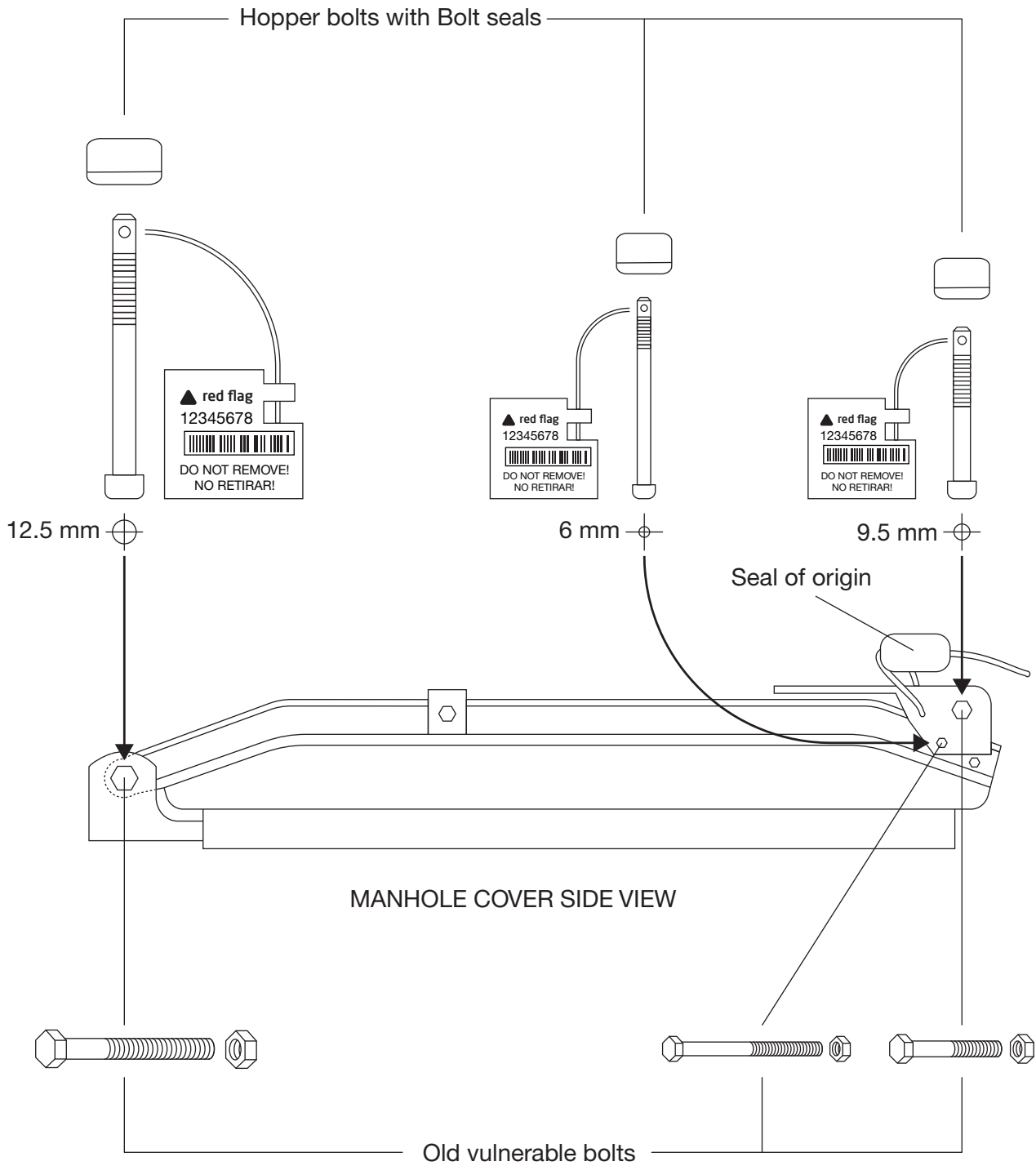


Hammer

DUPLEXEAL AND TYPES OF HOPPER BOLTS

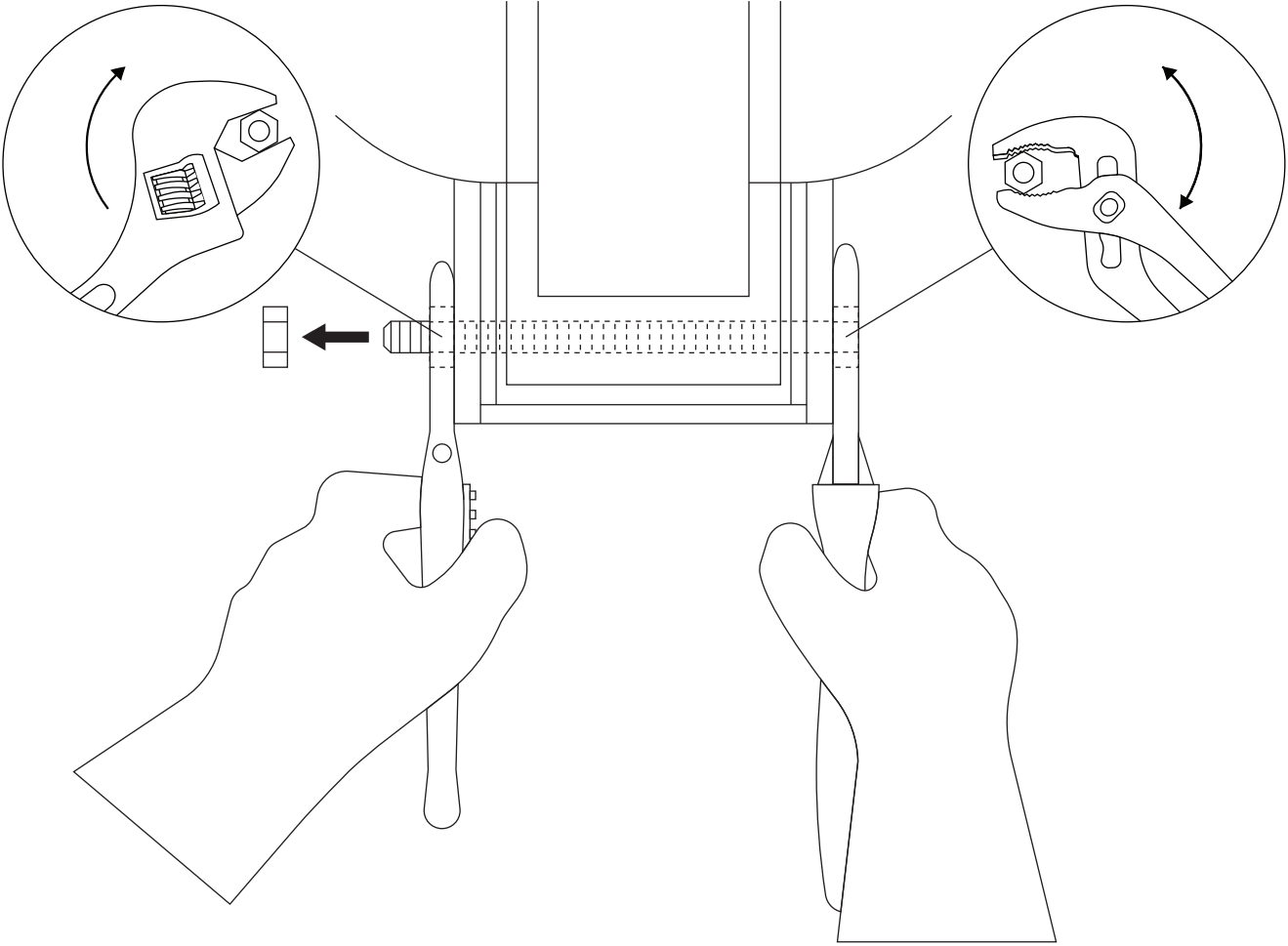
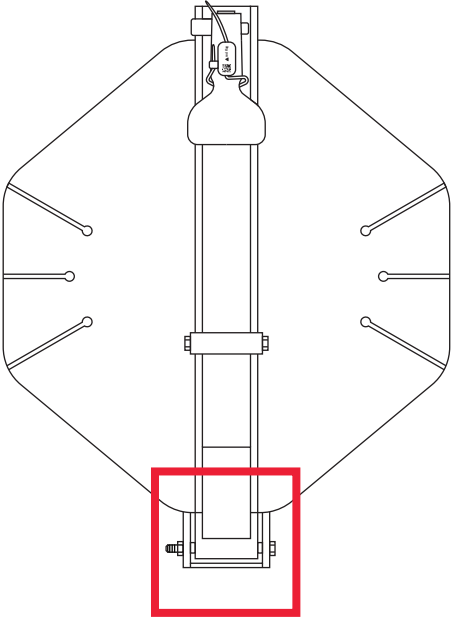


REPLACEMENT OF EXISTING VULNERABLE BOLTS WITH SEALED HOPPER BOLTS



A VULNERABLE BOLT, WHEN REMOVED, PROVIDES ACCESS TO THE CONTENTS OF A HOPPER CAR WITHOUT SHOWING EVIDENCE OF ENTRY OR TAMPERING.

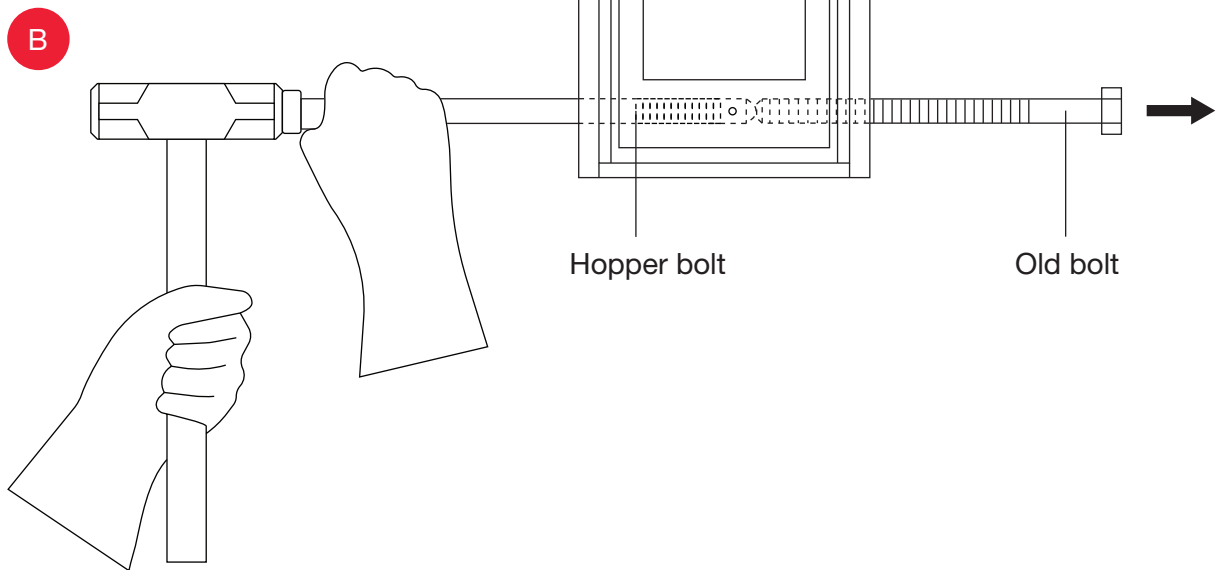
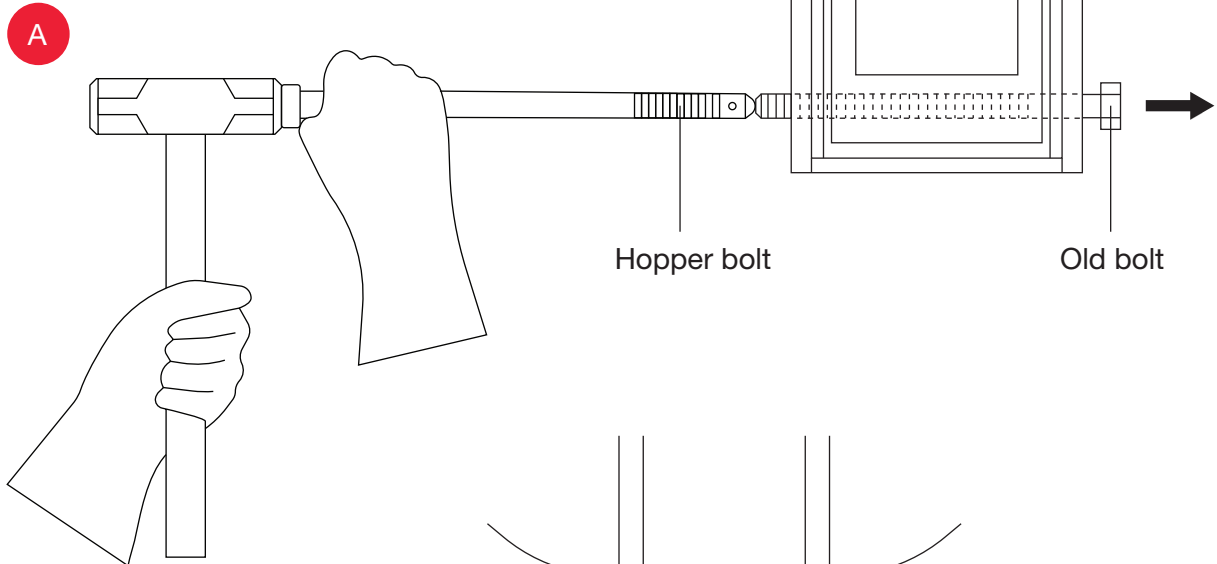
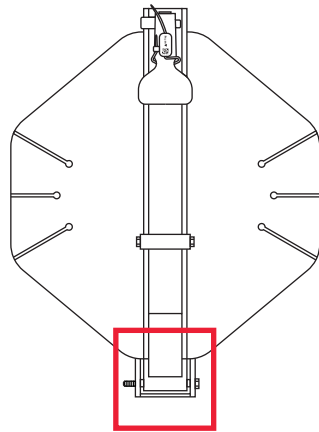
SEALING PROCESS - STEP 1 - REMOVING THE EXISTING NUT



LEFT

RIGHT

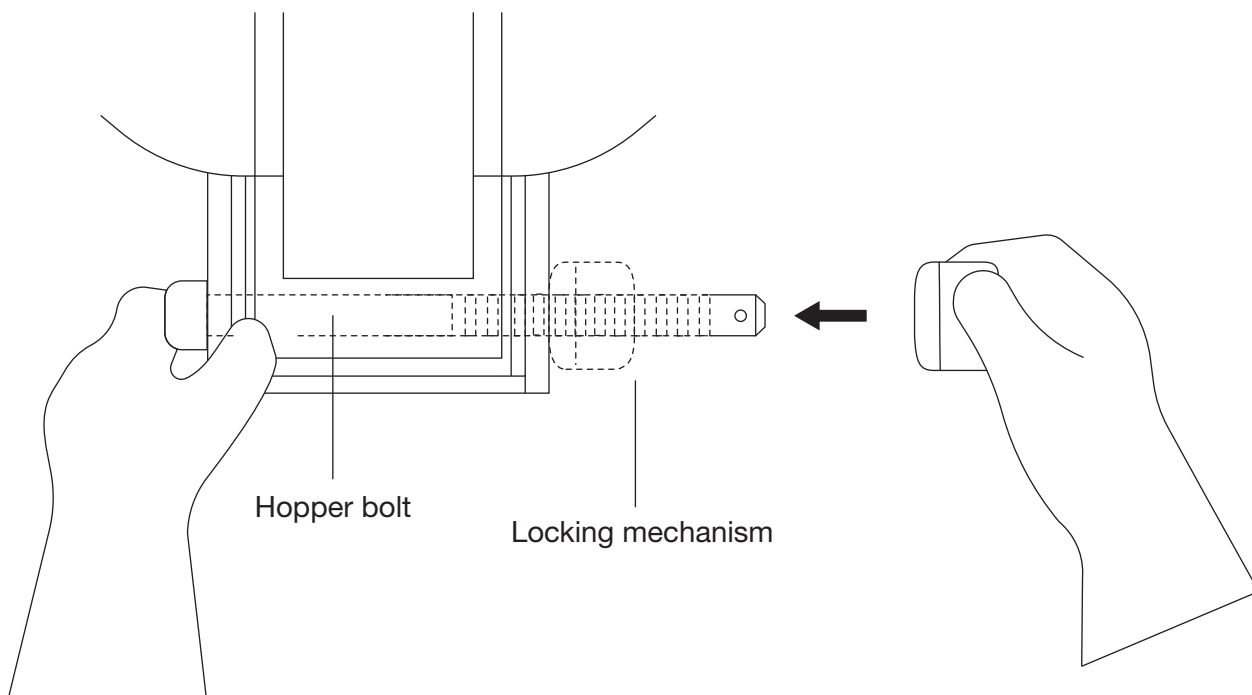
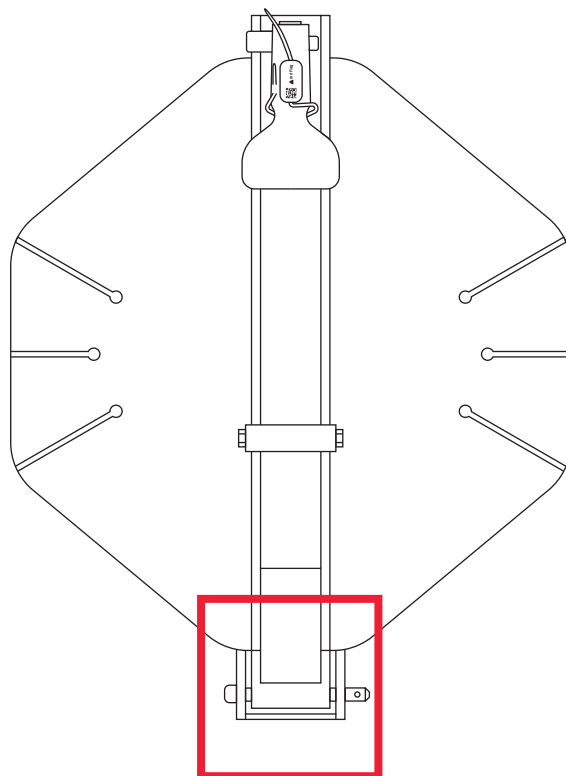
SEALING PROCESS - STEP 2 - REMOVING THE EXISTING VULNERABLE BOLT WITH A HOPPER BOLT



LEFT

RIGHT

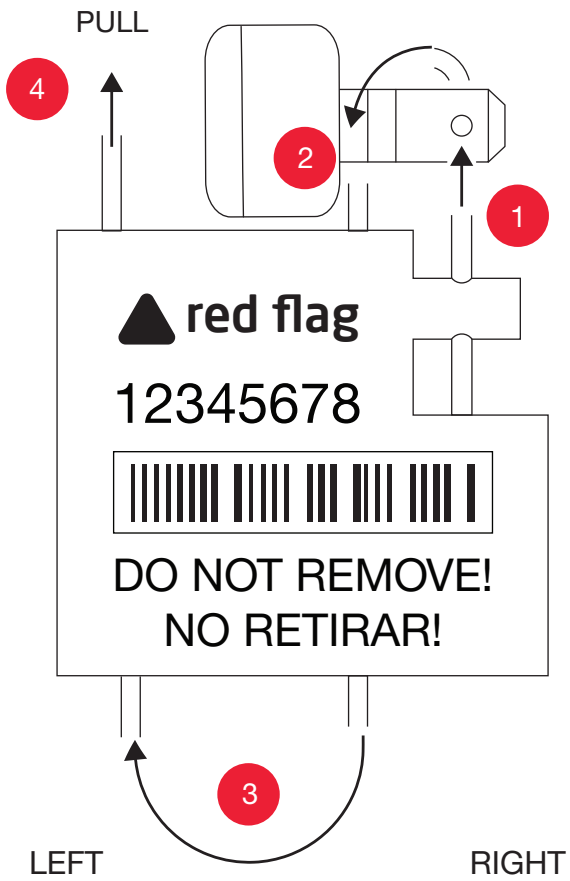
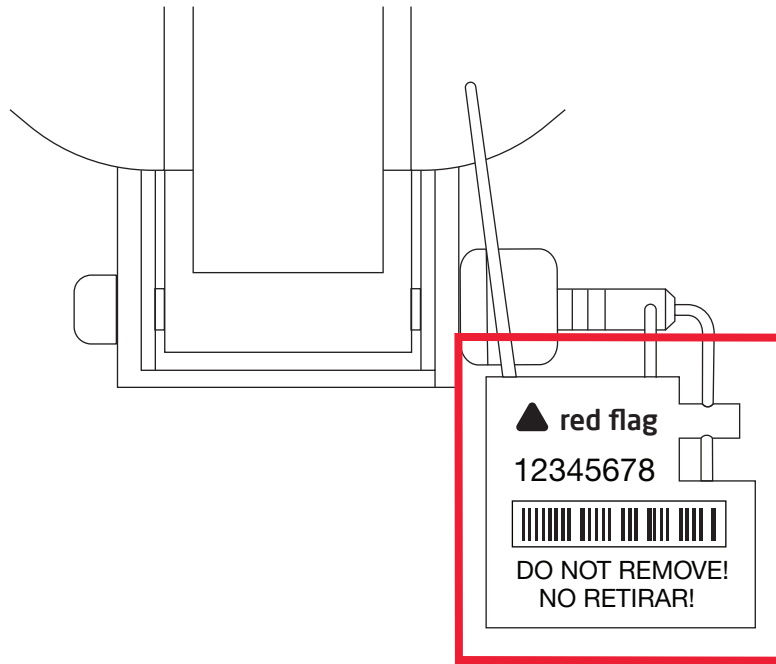
SEALING PROCESS - STEP 3 - APPLYING THE LOCKING MECHANISM ON THE HOPPER BOLT



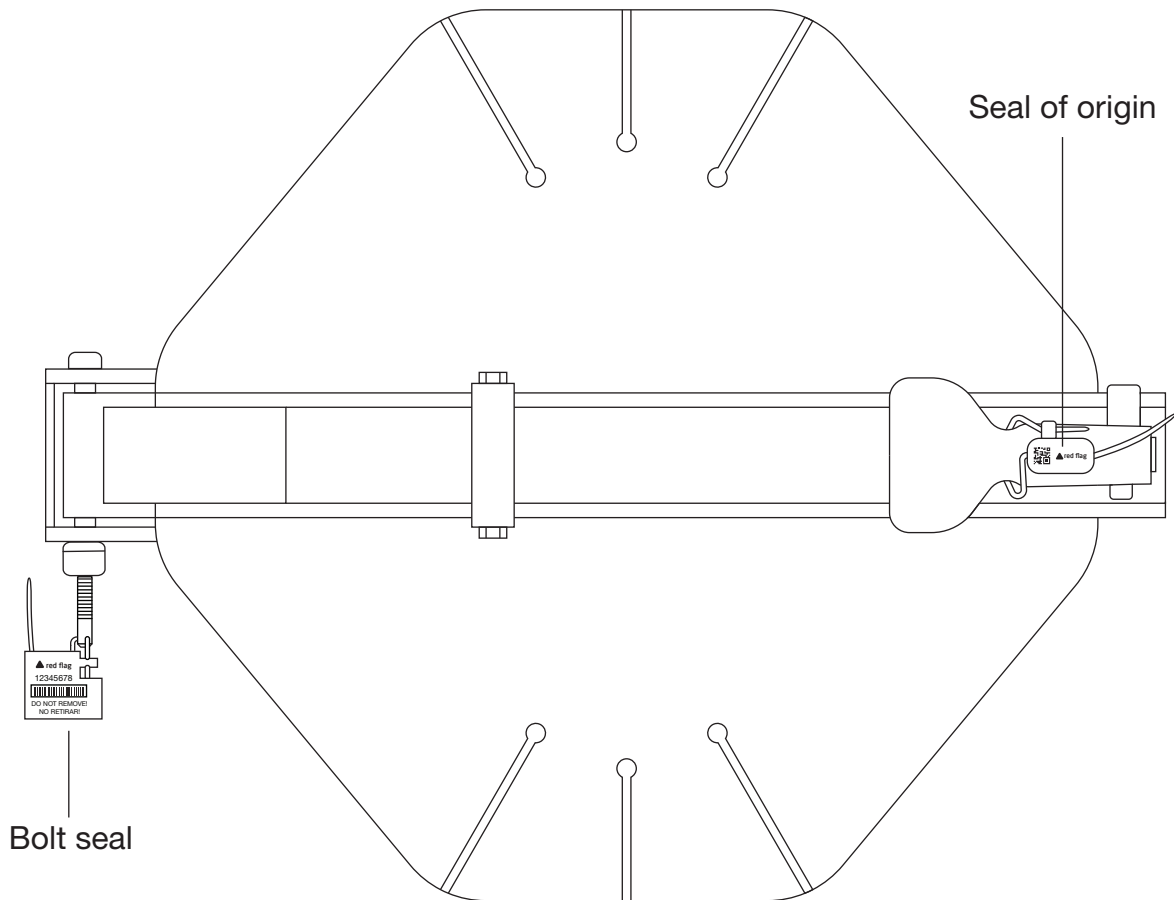
LEFT

RIGHT

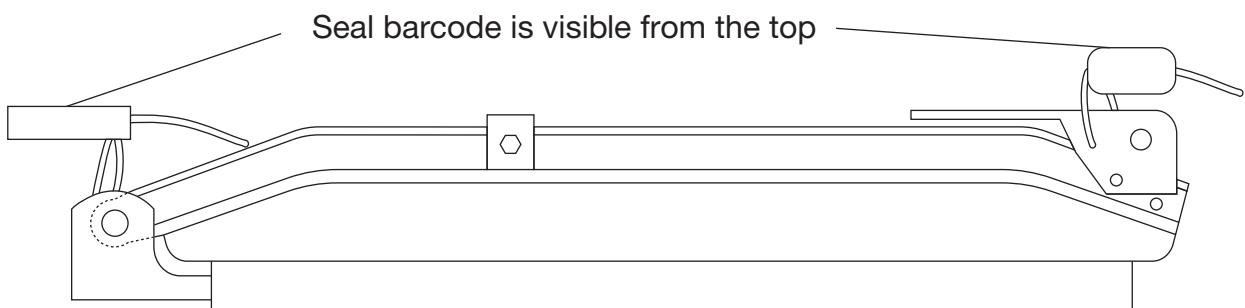
SEALING PROCESS - STEP 4 - APPLYING DUPLEXEAL ON THE HOPPER BOLT



MANHOLE COVER SKETCH

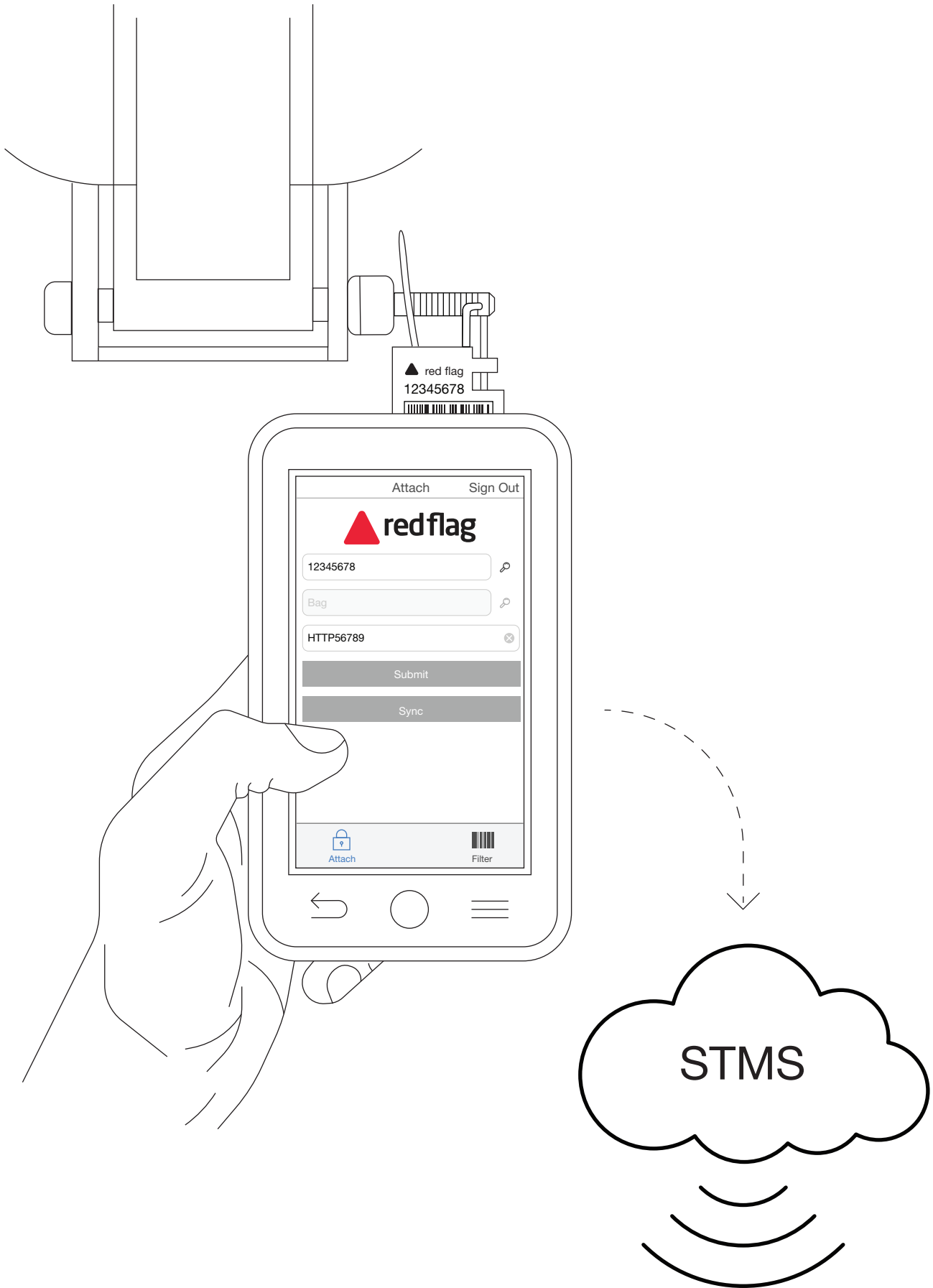


TOP VIEW








SIDE VIEW

SECURITY TRANSIT MANAGEMENT SYSTEM (STMS)



SEALING PROCESS STEP BY STEP

- 1 REMOVING THE EXISTING NUT 
- 2 REMOVING THE EXISTING VULNERABLE BOLT WITH A PIN PUNCH 
- 3 REMOVING THE PIN PUNCH USING THE HOPPER BOLT 
- 4 APPLYING THE LOCKING MECHANISM ON THE HOPPER BOLT 
- 5 APPLYING DUPLEXEAL ON THE HOPPER BOLT 
- 6 SECURITY TRANSIT MANAGEMENT SYSTEM 