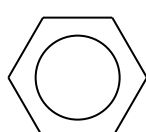
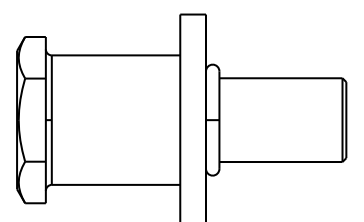
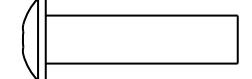
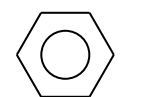
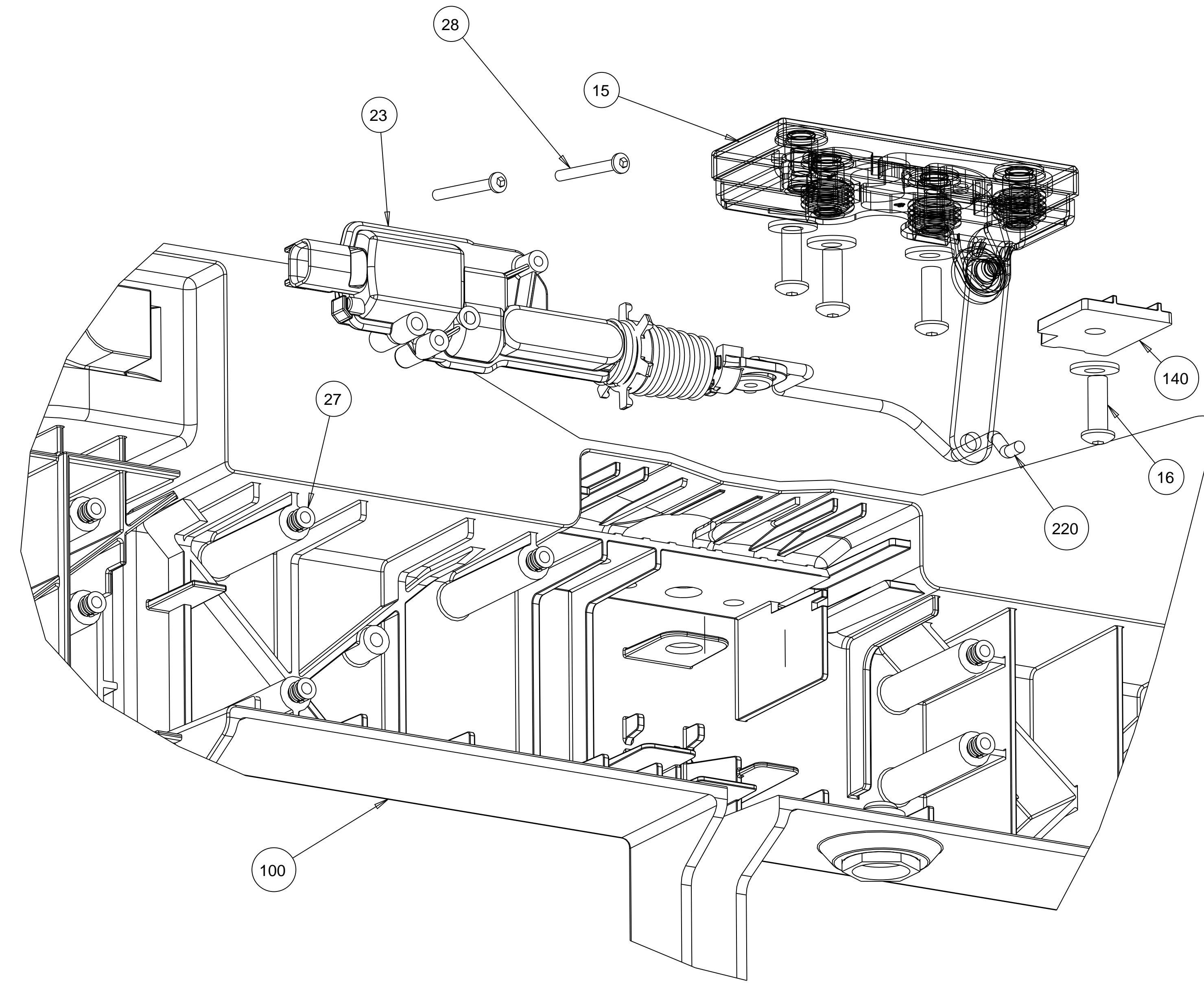


### STEP 1

#### PUSH BAR SUB-ASSEMBLY


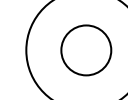
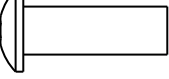

1. INSERT PART 9 (LOCKNUT), INTO PART 115 (LOWER PUSHBAR)
2. TIGHTEN PART 8 (LATCH STUD) THROUGH PART 115, INTO PART 9 (LOCK NUT)
3. SECURE PART 110 (UPPER PUSHBAR) TO PART 115 (LOWER PUSHBAR) WITH FOUR PART 10 (BHCS BOLTS), AND FOUR PART 11 (LOCK NUTS).

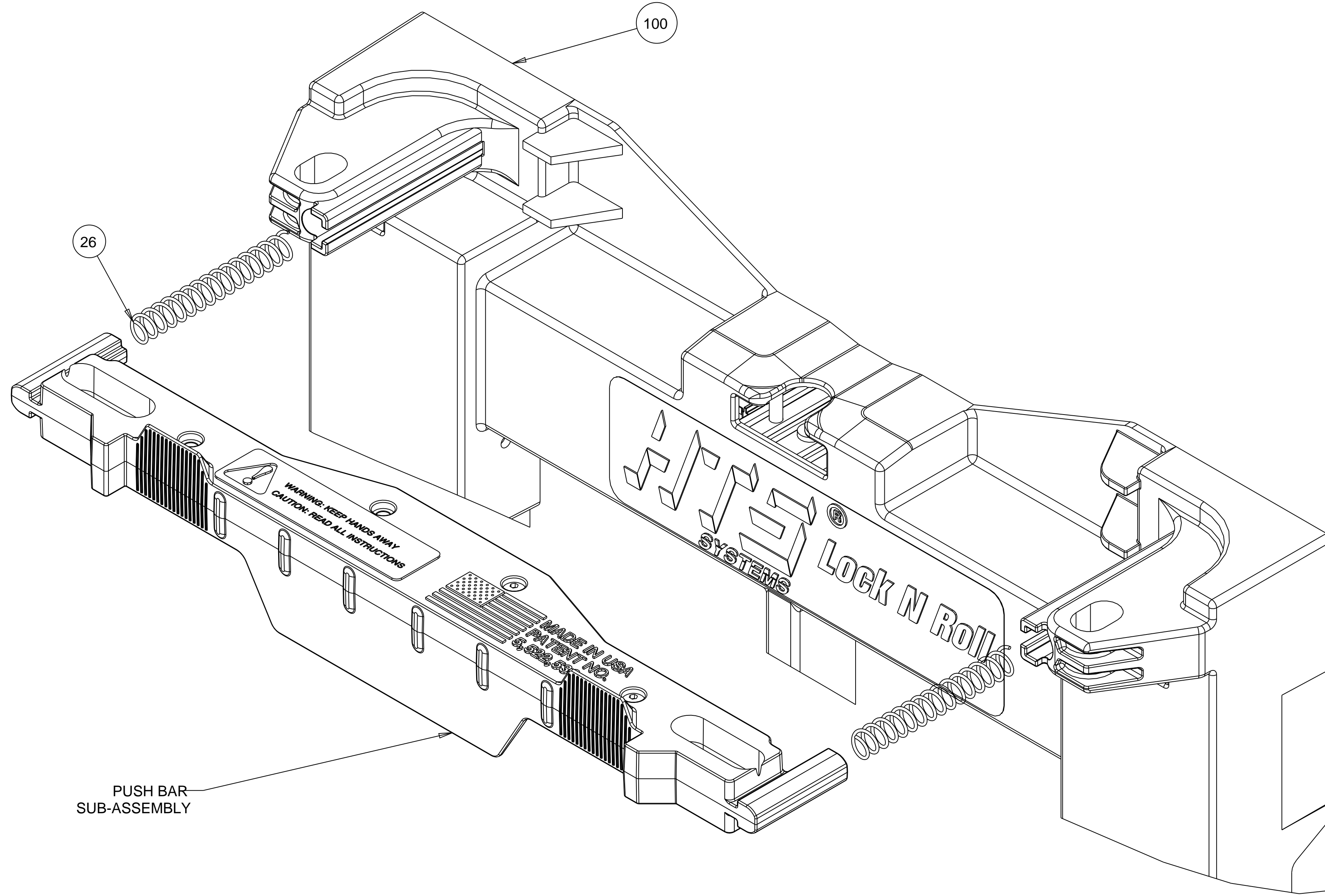
PART NO.	PICTURE	QUANTITY
9		1
8		1
10		4
11		4



### STEP 2

1. USE ULTRA SONIC TOOL TO INSTALL PART 27 (THREADED INSERTS) INTO PART 100 (FRAME).
2. INSERT PART 220 (CONNECTING ROD) INTO PART 23 (ACTUATOR).
3. INSTALL PART 23 (ACTUATOR) INTO PART 100 (FRAME) USING 2 PART 28 (SCREWS).
4. INSTALL PART 15 (TOP LATCH) INTO PART 100 (FRAME). INSERT PART 220 (CONNECTING ROD) INTO HOLE IN ARM OF PART 15 (TOP LATCH). USE 4 PART 16 (BHCS BOLT) TO FIX LOCATION OF PART 15 (TOP LATCH). ON RIGHT END, INSERT PART 16 (BHCS BOLT) THROUGH PART 140 (SHAPED WASHER) BEFORE SCREWING INTO PART 15 (TOP LATCH)

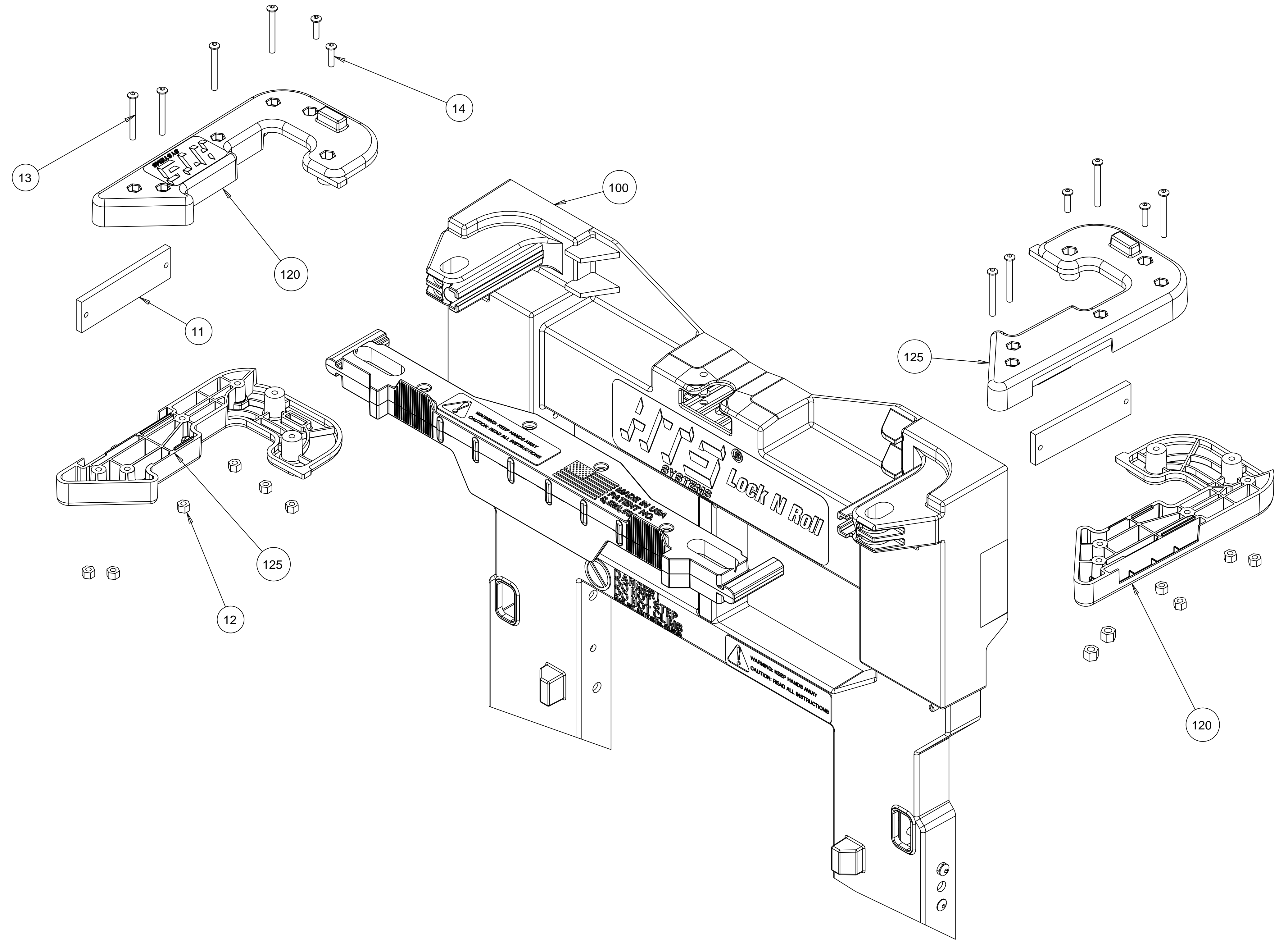
PART NO.	PICTURE	QUANTITY
27		7
8		4
16		4
28		2



PUSH BAR  
SUB-ASSEMBLY

### STEP 3

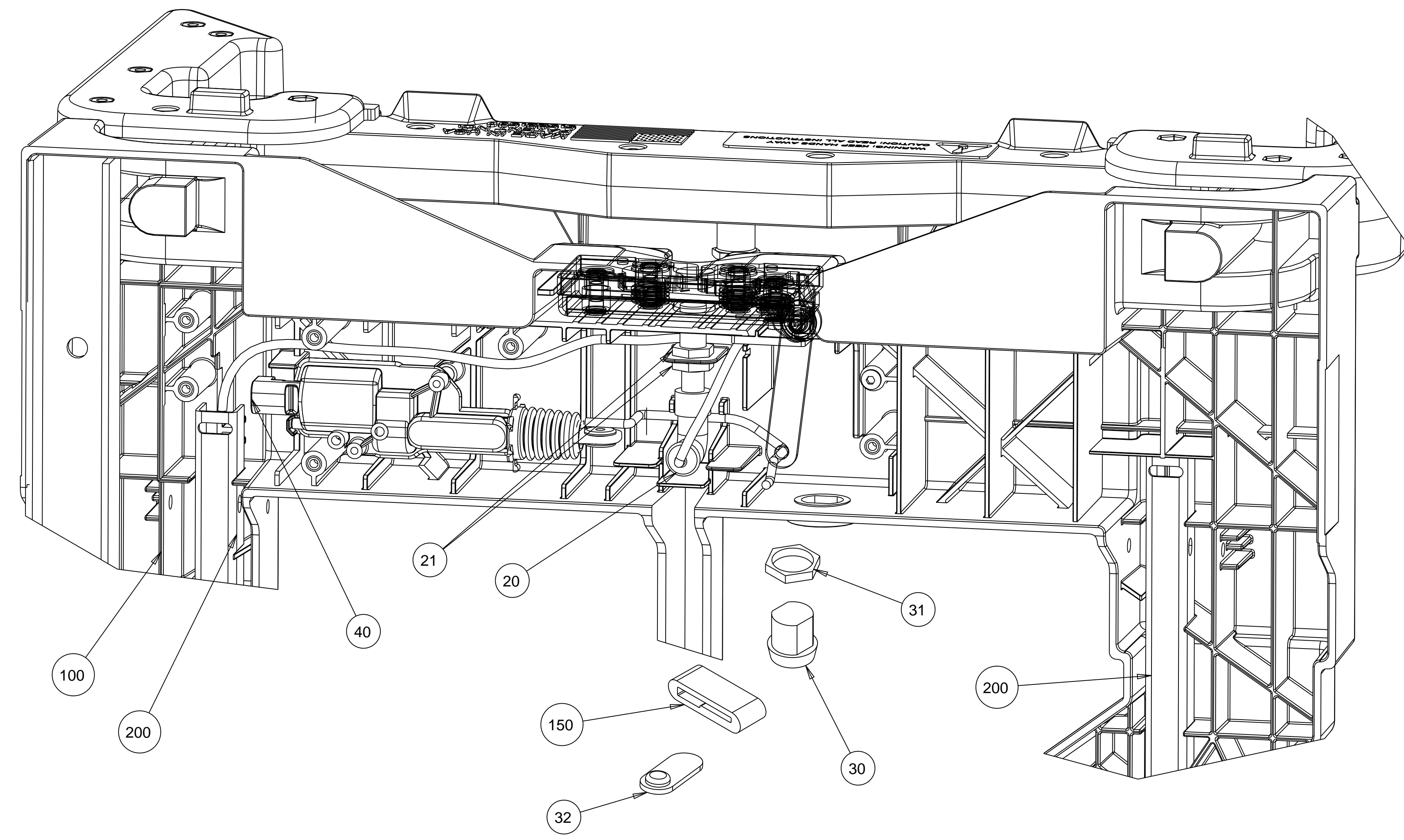
1. INSERT 2 PART 26 (SPRING) INTO PART 100 (FRAME)
2. PUSH ON PUSH BAR SUB-ASSEMBLY, COMPRESS PARTS 26 (SPRING).



### STEP 4

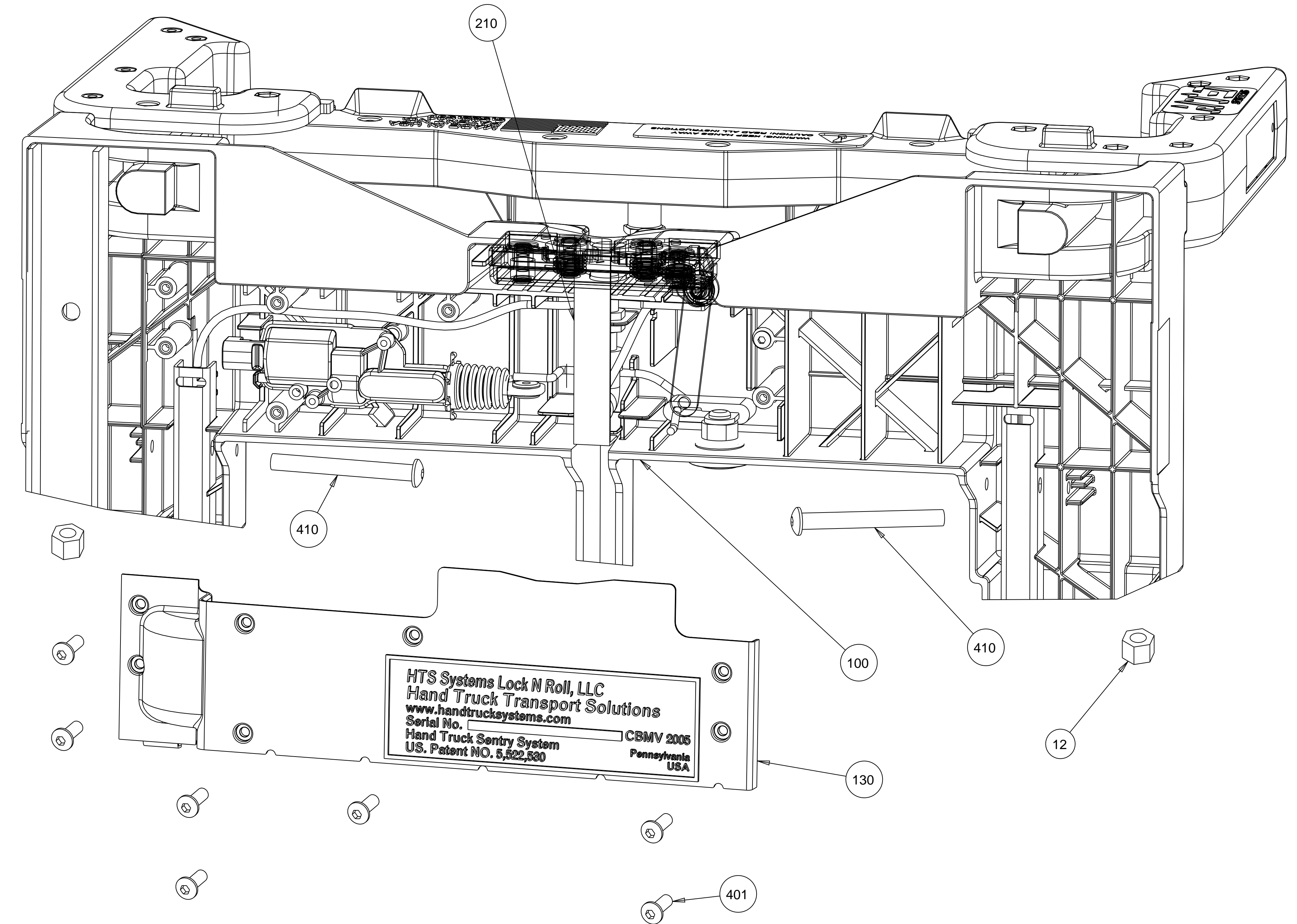
1. INSERT PART 11 (REFLECTOR) INTO PART 5 (CLAW A) ON THE LEFT SIDE, AND INSERT PART 11 (REFLECTOR) INTO PART 4 (CLAW B) ON THE RIGHT SIDE.
2. ASSEMBLE PARTS 4 AND 5 OVER PART 1 (FRAME) AND PUSH BAR SUB-ASSEMBLY ON BOTH SIDES. USE PARTS 13 (BHCS SHORT BOLT) IN HINGE AREA AND PARTS 14 (BHCS LONG BOLTS) TO SECURE CLAWS TOGETHER.

PART NO.	PICTURE	QUANTITY
14		4
13		8
12		12



## STEP 5

1. INSTALL PART 20 (SENSOR) INTO PART 100 (FRAME) USING (2) PART 21 (LOCKING NUTS). GUIDE WIRE AS SHOWN, AND CONNECT TO PART 40 (SOLENOID). GUIDE WIRE DOWN SIDE OF PART 100 (FRAME) IN WIRE TRACK.
2. INSTALL PART 200 (CHANNEL) ON EACH SIDE OF PART 100 (FRAME).
3. SLIDE PART 150 (LOCK SLIDER) OVER THE END OF PART 220 (CONNECTING ROD).
4. INSERT PART 30 (LOCK BARREL) THROUGH SHAPED HOLE IN PART 100 (FRAME). USE PART 31 (LOCK NUT) TO SECURE IN PLACE. POSITION PART 32 (LOCK ARM) OVER PART 30 (LOCK BARREL) AND INSIDE PART 150 (LOCK SLIDER). USE SCREW TO SECURE IN PLACE.

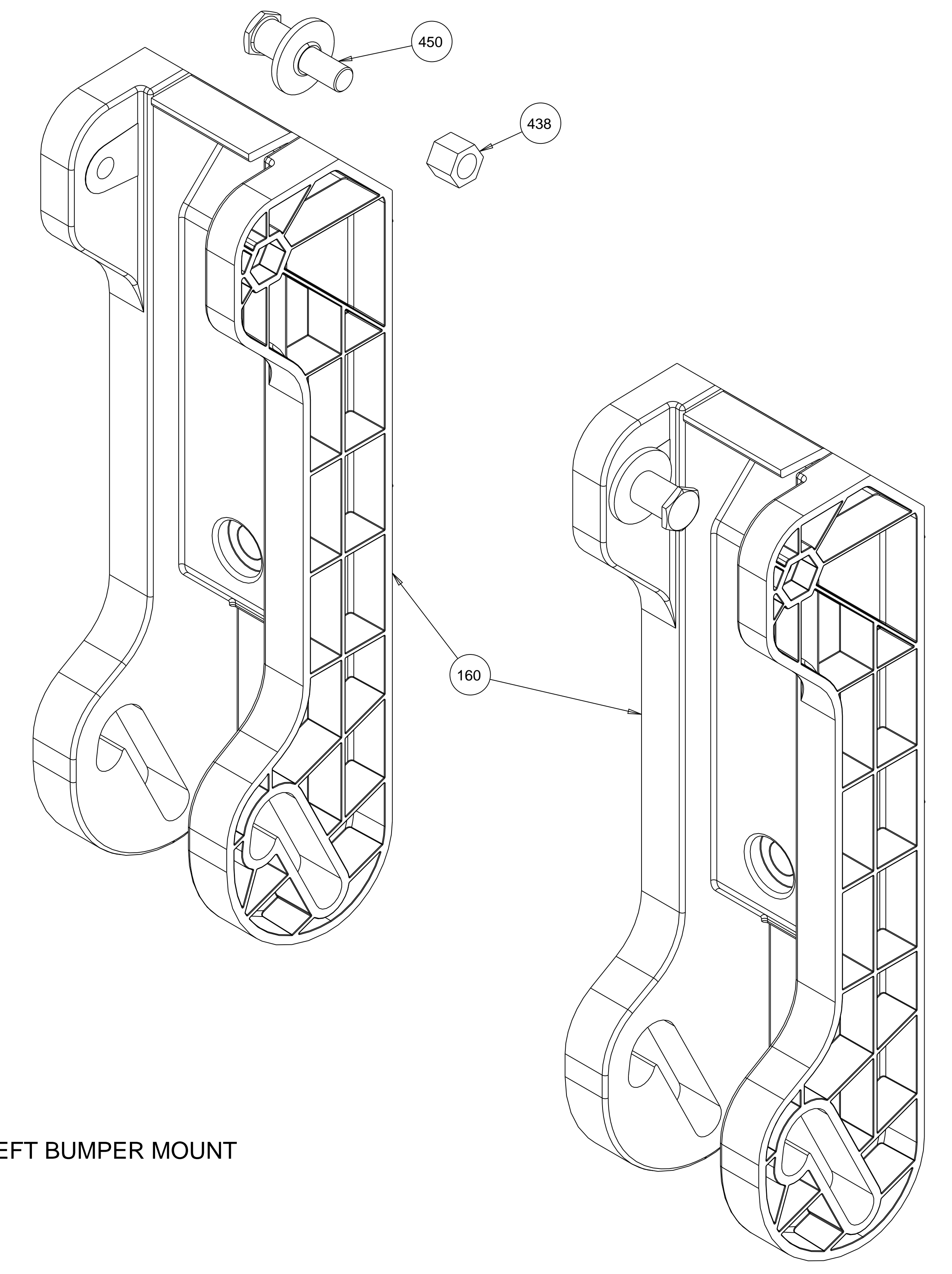
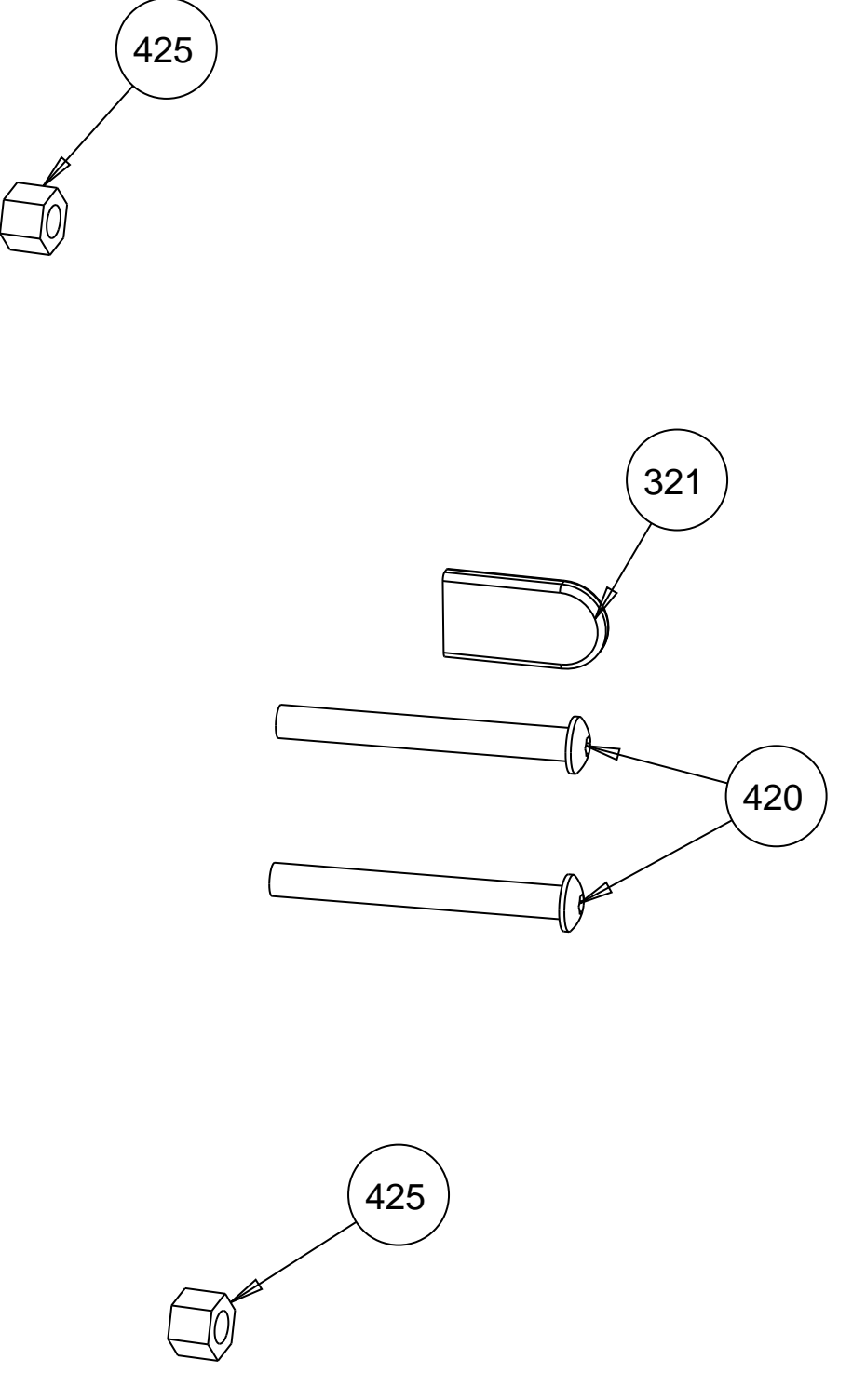
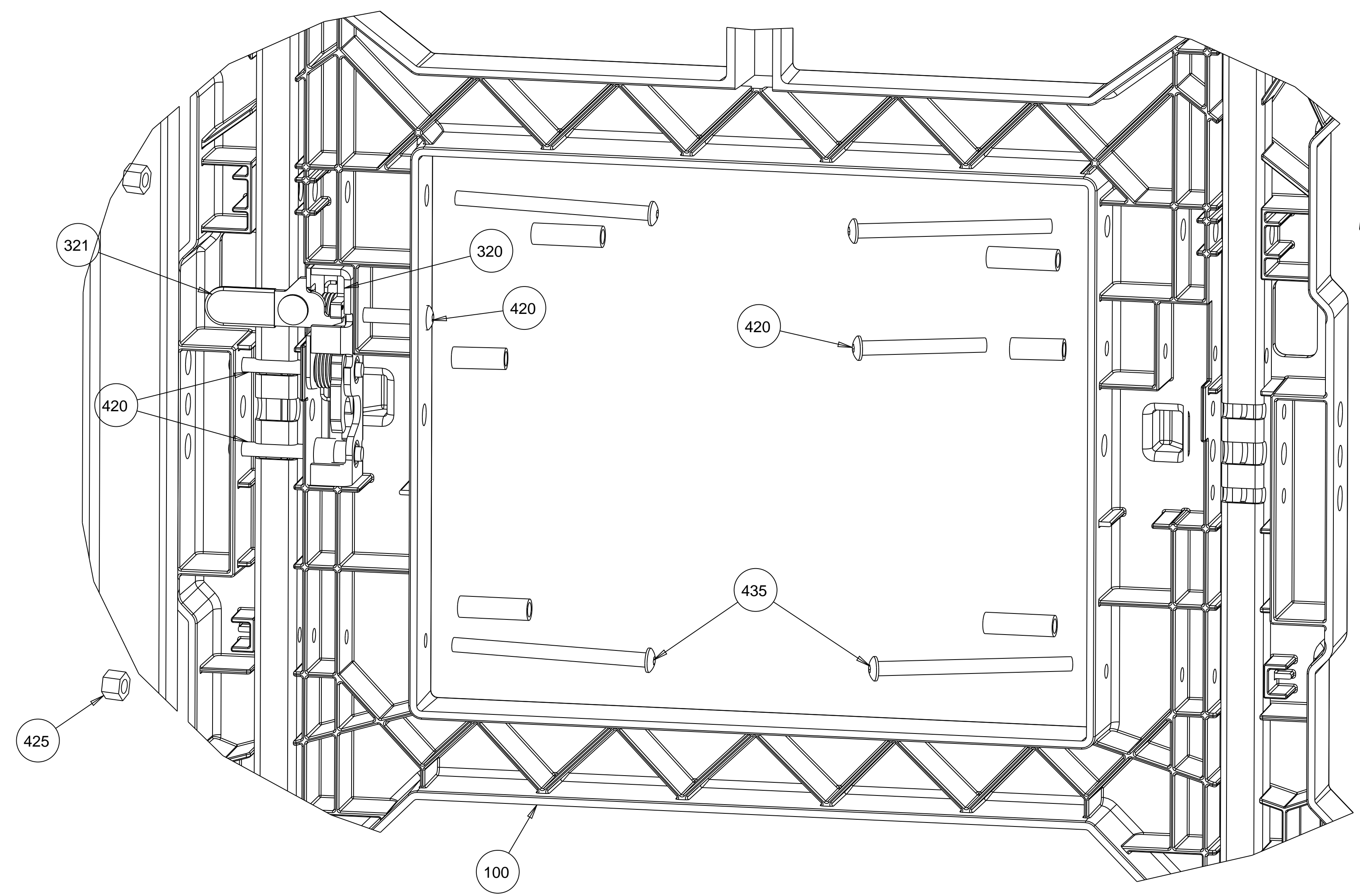


## STEP 6

1. INSERT PART 210 (BLADE) INTO PART 100 (FRAME)
2. ATTACH PART 130 (REAR COVER) TO PART 100 (FRAME) USING (7) PART 401 (BHCS)
3. SECURE UPPER SECTION OF PART 35 (CHANNEL) WITH PART 410 (BHCS) ON BOTH SIDES

PART NO.	PICTURE	QUANTITY
401		7
410		2
12		2

HTS Systems Lock N Roll, LLC  
 Hand Truck Transport Solutions  
 www.handtrucksystems.com  
 Serial No. \_\_\_\_\_ CBMV 2006  
 Hand Truck Sentry System  
 US Patent NO. 5,622,530  
 Pennsylvania USA



### STEP 7

1. INSTALL PART 321 (SIDE LATCH HANDLE) TO PARTS 320 (RIGHT SIDE LATCH) AND 325 (LEFT SIDE LATCH) USING (3) PART 420 (BHCS) PER LATCH.
2. SECURE LOWER SECTION OF PART 200 (CHANNEL) USING (2) PART 435 (BHCS) AND (2) PART 425 (1/4 NUT WITH NYLON LOCK)

PART NO.	PICTURE	QUANTITY
401		6
410		4
425		4
12		2
12		4

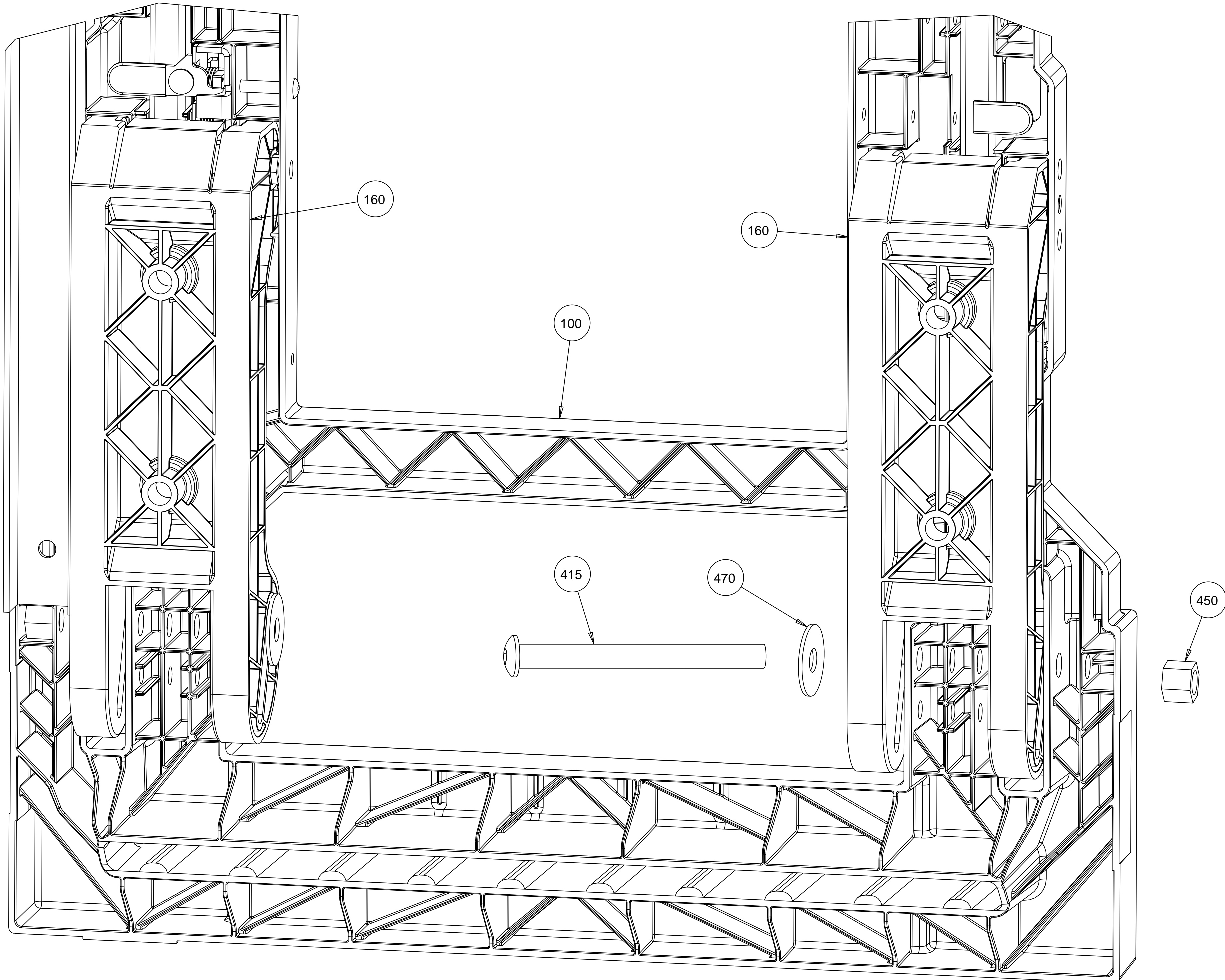
### STEP 8

1. INSERT PART 438 (LOCKING NUT) INTO POCKET IN PART 160 (BUMPER MOUNT). TIGHTEN PART 450 (SIDE LATCH POST) THROUGH PART 160 (BUMPER MOUNT) INTO PART 438 (LOCKING NUT)
2. REPEAT FOR OPPOSITE SIDE BUMPER MOUNT

PART NO.	PICTURE	QUANTITY
450		2
438		2

# STEP 10

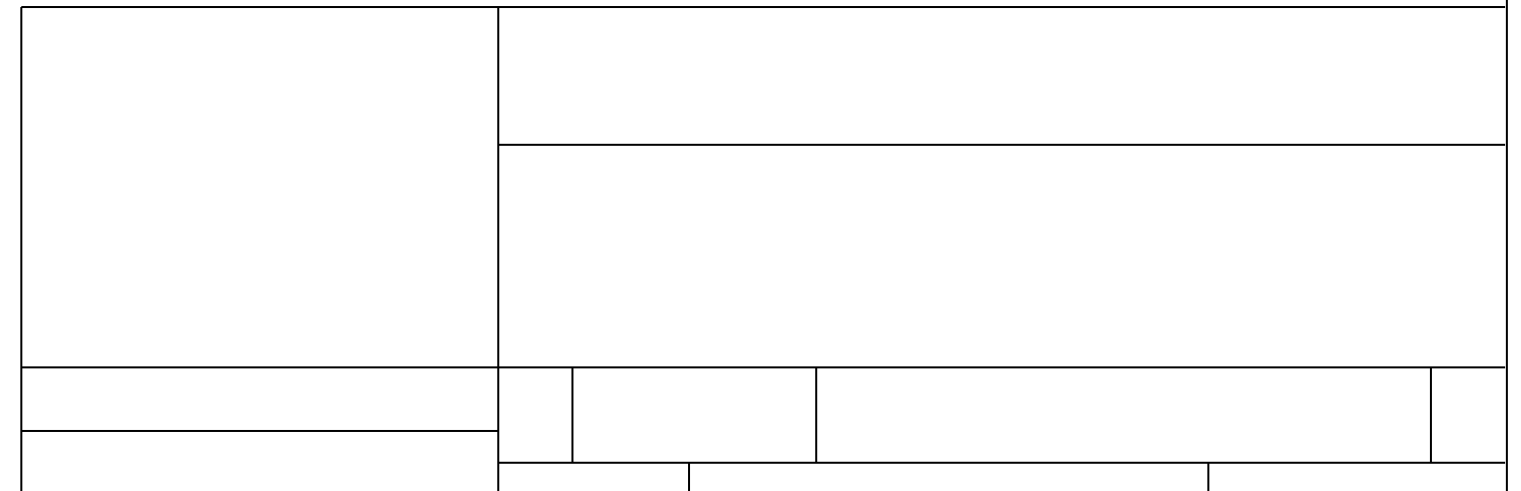
1. DRILL TILT MOUNT BUMPER HOLES USING TEMPLATE PROVIDED. USE PILOT DRILL OF APPROX.  $\varnothing 1/4"$ . NEXT, USE  $\varnothing 17/32$  DRILL FOR FINAL HOLE. DE-BURR BEFORE NEXT STEP.



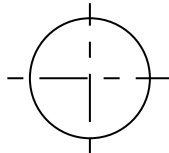
# STEP 9

1. INSERT PART 450 (LOCKING NUT) INTO POCKET IN PART 100 (FRAME). PLACE PART 160 (BUMPER-MOUNT) IN CORRECT LOCATION ON FRAME.  
 2. INSTALL PART 470 (WASHER) ON PART 415 (BHCS). INSERT PART 415 THROUGH PART 160 (BUMPER MOUNT) AND THROUGH PART 100 (FRAME). TIGHTEN INTO PART 450 (LOCKING NUT).  
 3. REPEAT ON OPPOSITE SIDE.

PART NO.	PICTURE	QUANTITY
415		2
470		2
450		2

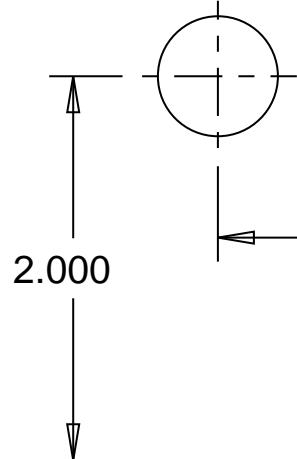


# TILT AND DIRECT MOUNT - BUMPER DRILL TEMPLATE



## TILT MOUNT:

SPACE BOTTOM HOLES 2 INCHES ABOVE BOTTOM OF BUMPER (AS SHOWN)



2.000

CENTER OF HTS



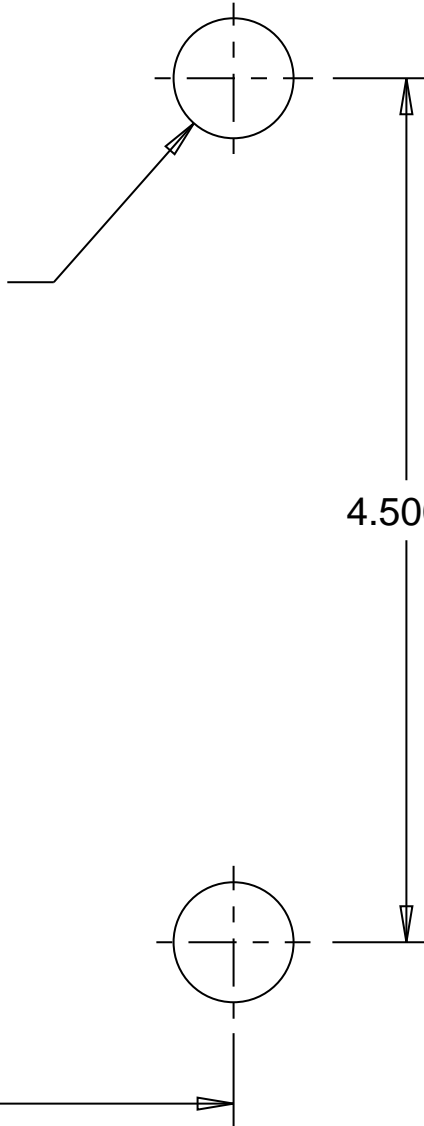
16.540

BOTTOM OF BUMPER

## DIRECT MOUNT:

MOVE HOLES UPWARD AS CLOSE AS POSSIBLE TO THE TOP EDGE OF THE BUMPER. TOP OF HTS BLADE CHUTE (HAND TRUCK LOADING PLATFORM) SHOULD TOUCH BOTTOM OF BUMPER.

Ø 5/8 (4) PLACES



4.500

