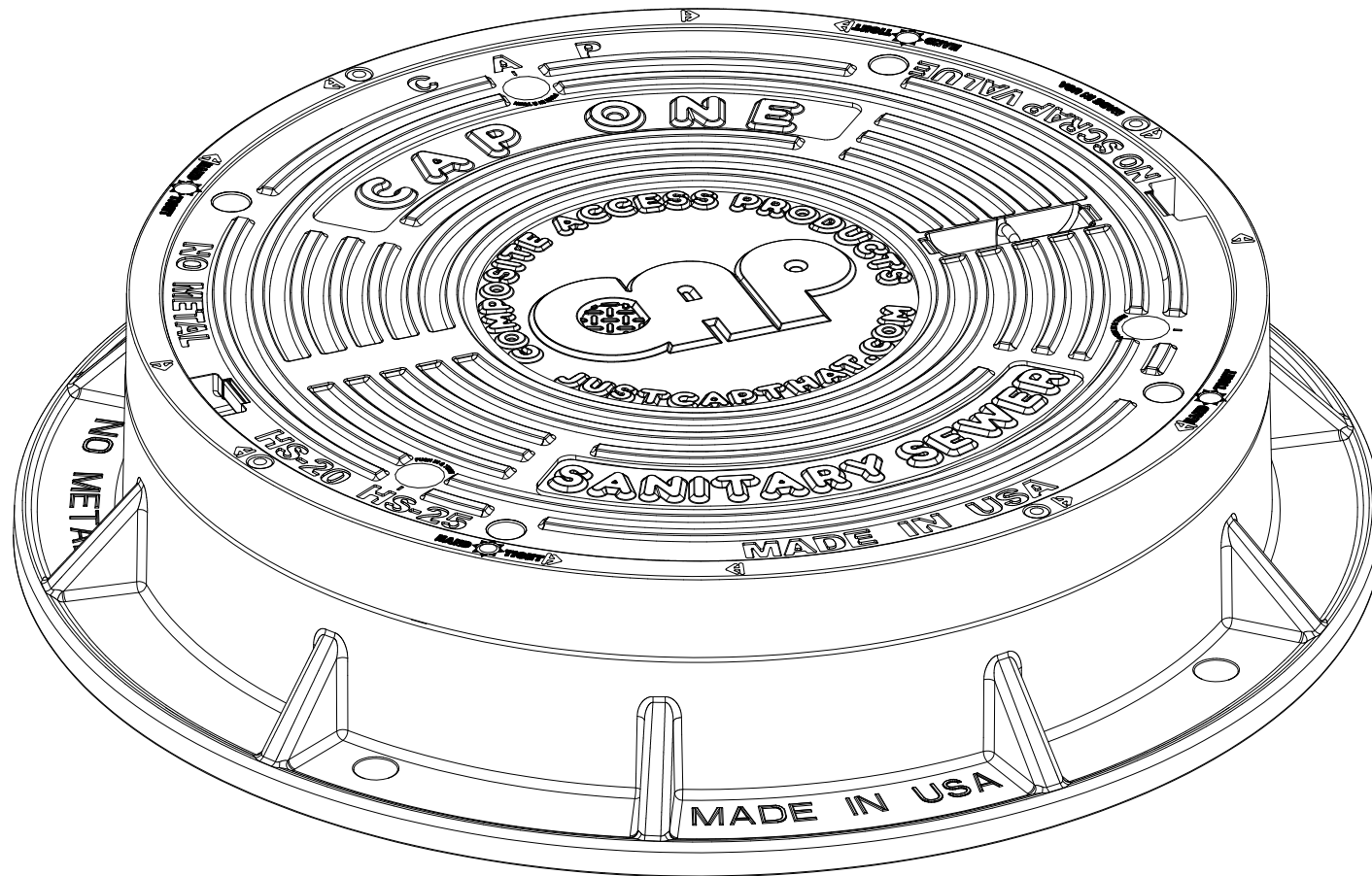


# CAP HALO Installation Instructions

## Model: 2.25" HEIGHT



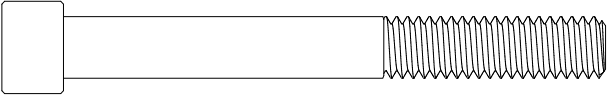
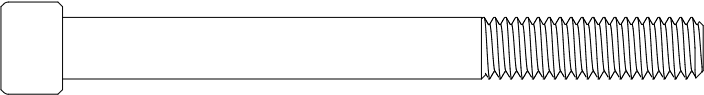
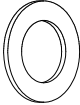
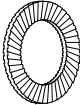
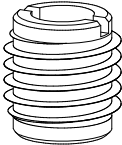

PARTS LIST

NO.	PART NAME	QTY.
1	FRAME EXTENDER	1
2	SHIM	1


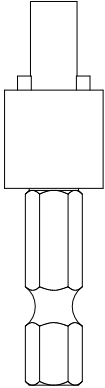


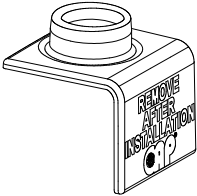
TOOLS NOT INCLUDED

HAMMER, DRILL, EPOXY, CAP CLAW, 1/4 ALLEN KEY,TAPE, FLAT HEAD SCREWDRIVER

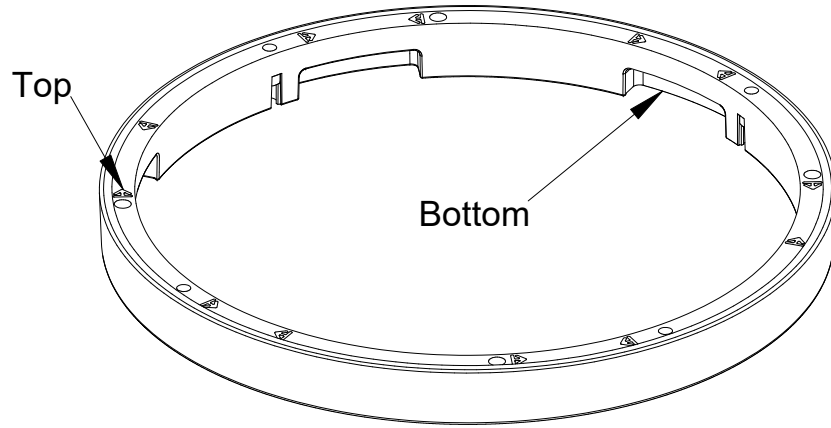
INSTALLATION KIT LIST (Included)

A	SHCS (5/16"x 2 3/4")	4
		
B	SHCS (5/16"x 3 1/4")	4
		
C	Mil. Spec Washer	8
		
D	Belleville Lock Washer	8
		
E	Self-tapping Threaded Insert	4
		
F	Thread-locking Insert	4
		

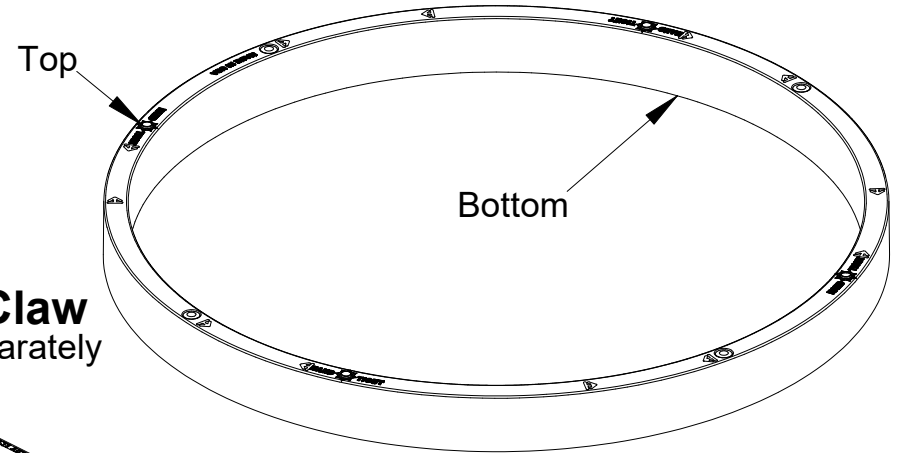
HARDWARE PACKAGE (Sold Separately)

G	I	H	K
1	1	1	1
14mm Drill Bit	Installation Bit	Transfer Punch	8mm Drill Bit
			
			J
			4
			Alignment Bracket

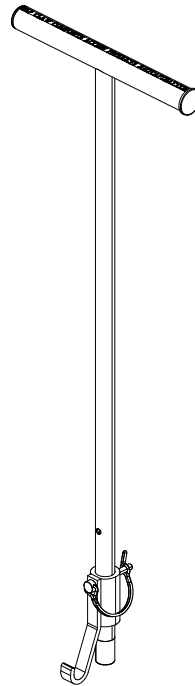
**Halo Shim**



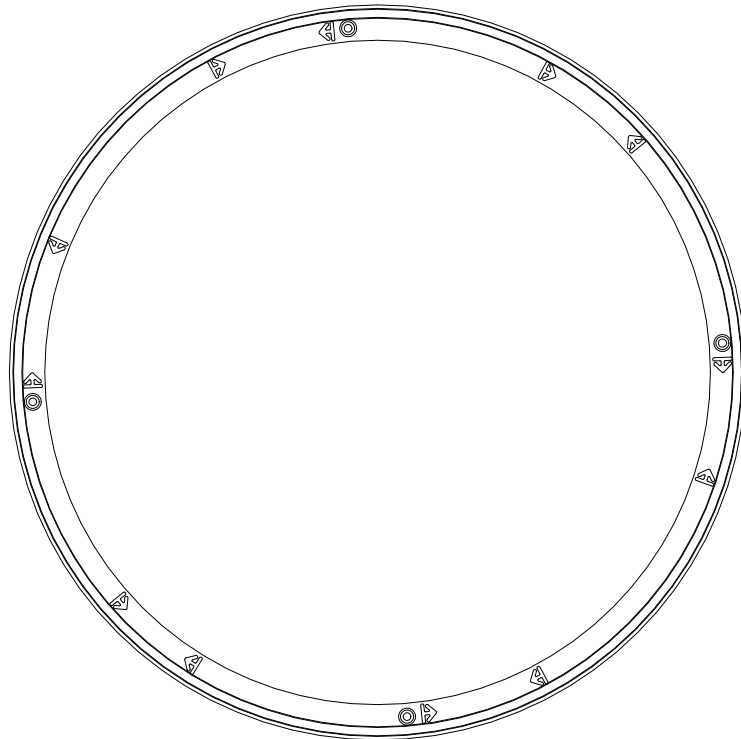
**Frame Extender**



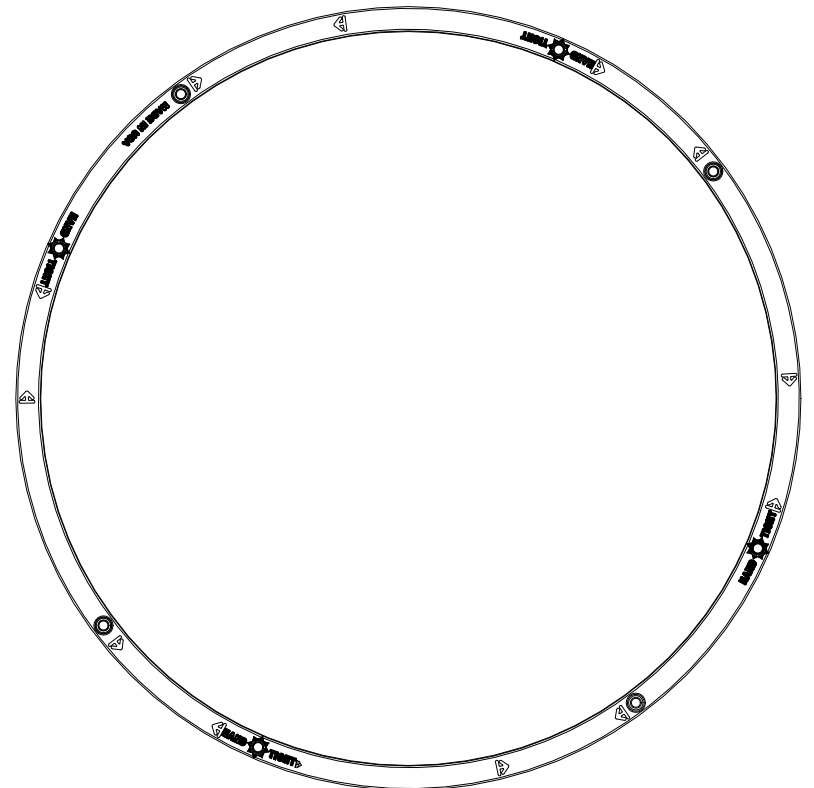
**CAP Claw**  
Sold Separately



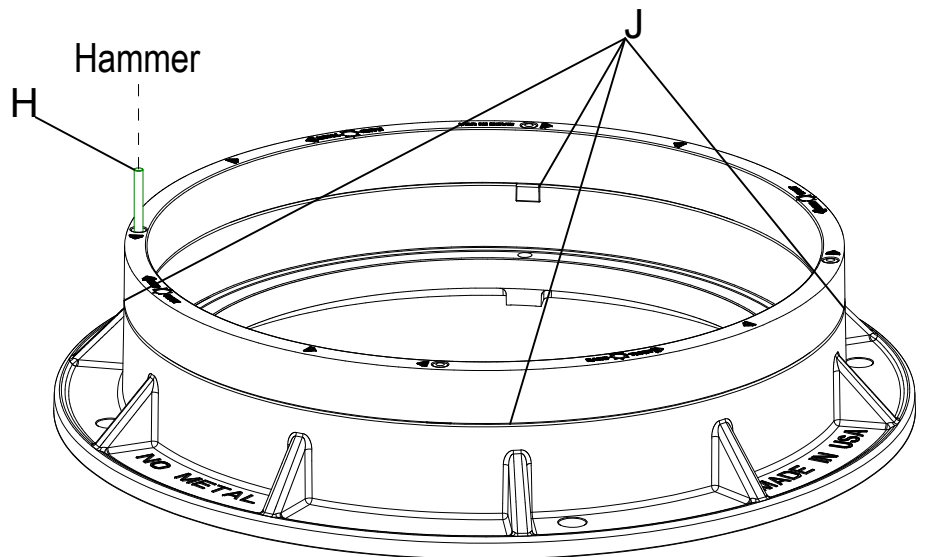
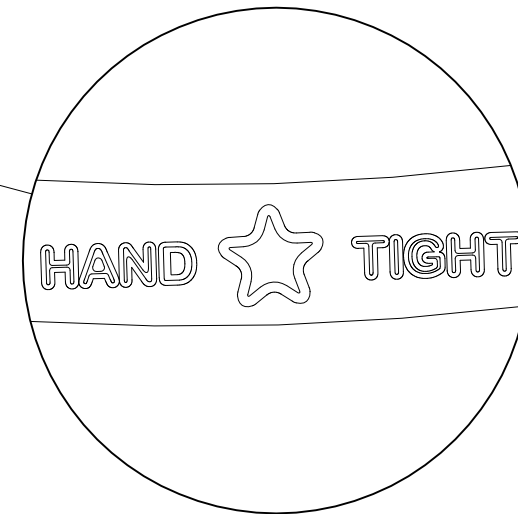
**Halo Shim Top View**



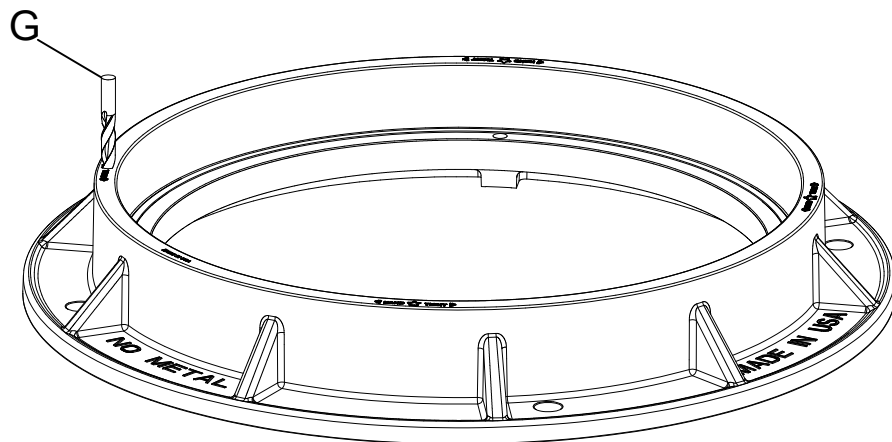
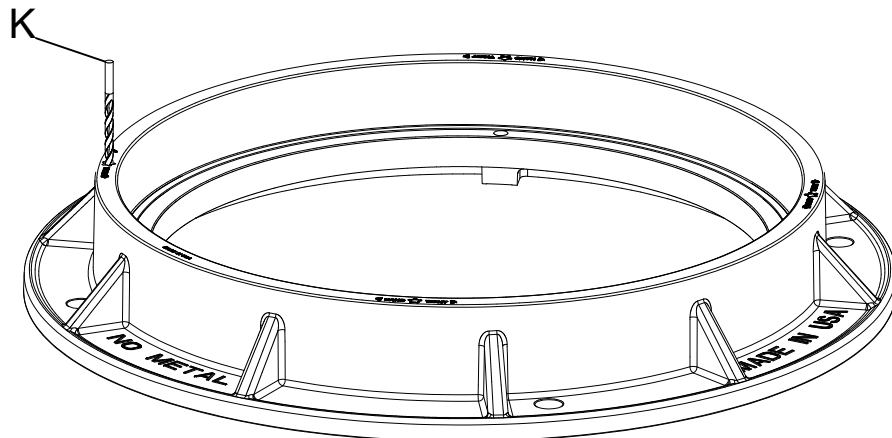
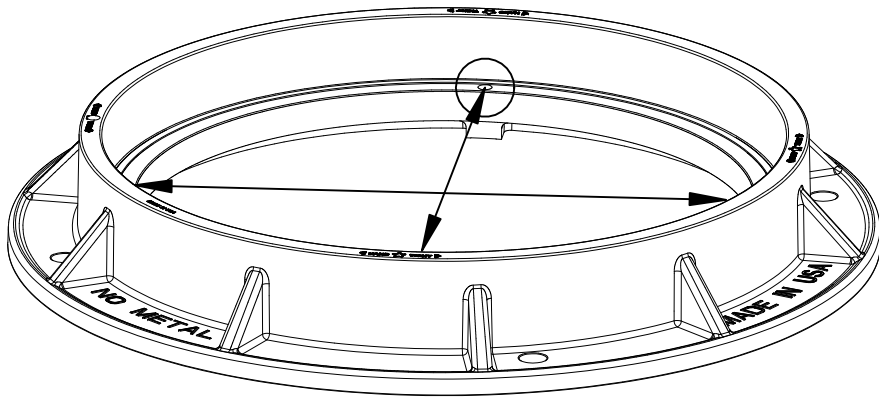
**Frame Extender Top View**



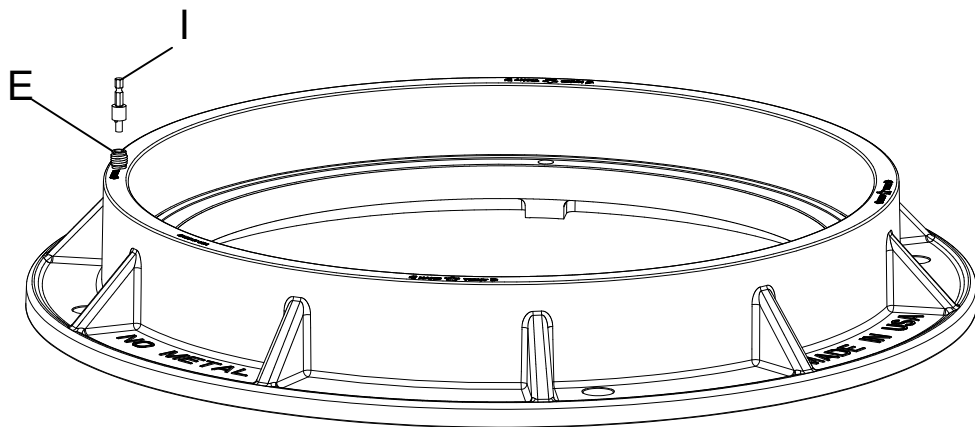
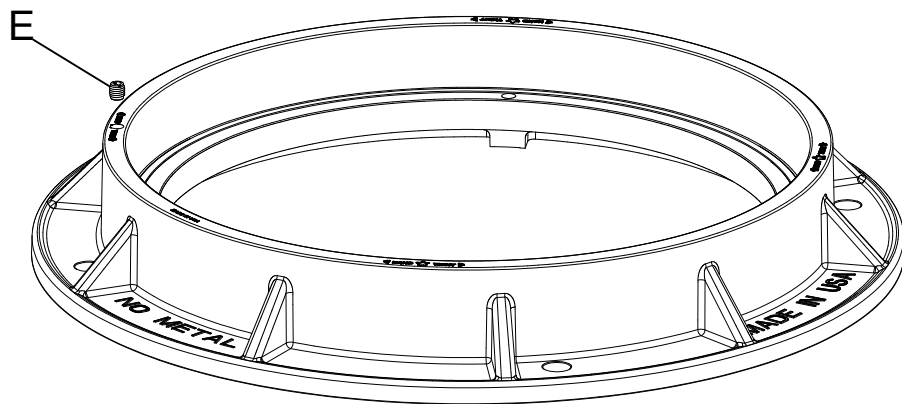
- 1- Insert the 4 Alignment Brackets (J) into the 4 holes at the bottom of the Frame Extender.
- 2- Place the Frame Extender onto the Frame using the Alignment Brackets (J) as guide.



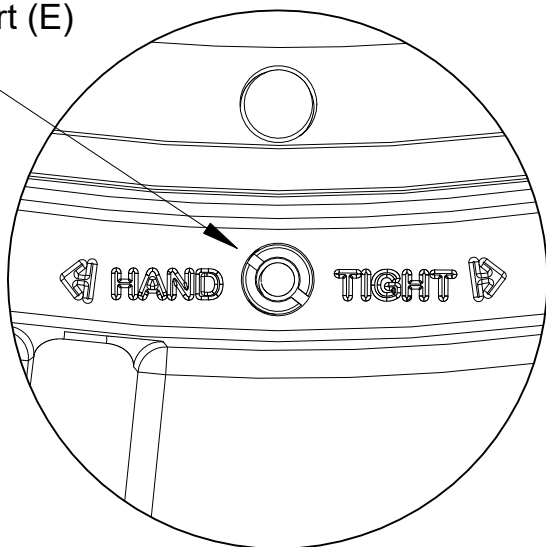
- 3- Align the Frame Extender's holes that include brackets with the stars on the installed Frame, shown above.
- 4- Take out the Transfer Punch (H) from the tool package. (The following steps require a Hammer, not included)
- 5- Insert the Transfer Punch (H) into one of the 4 holes with attached Alignment Bracket (J).
- 6- Using a hammer, apply enough force on the Transfer Punch (H) to mark the hole location onto the Frame. (perform this step for a single hole)
- 7- Remove the Transfer Punch (H) and Frame Extender.



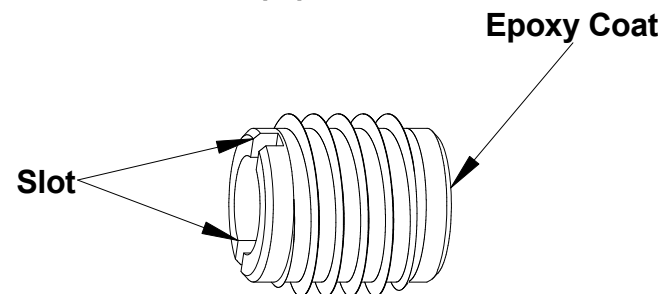
- 8- Use tape to cover the existing bolt holes of the Frame to prevent any debris from falling in.
- 9- Take out the 14mm (G) & 8mm (K) Drill Bits out of the tool package. (The following steps require a Drill, not included)
- 10- Using the 8mm Drill Bit (K), make a starter hole on the mark left by the Transfer Punch (H) from step 6.
- 11- Using the 14mm Drill Bit (G), create a 1" deep hole, using the starter hole as guide.
- 12- Clean the debris from the drilled hole and the existing Frame.



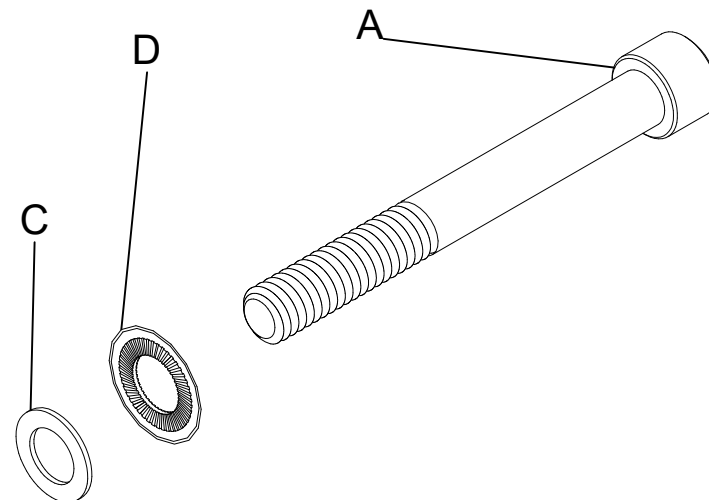
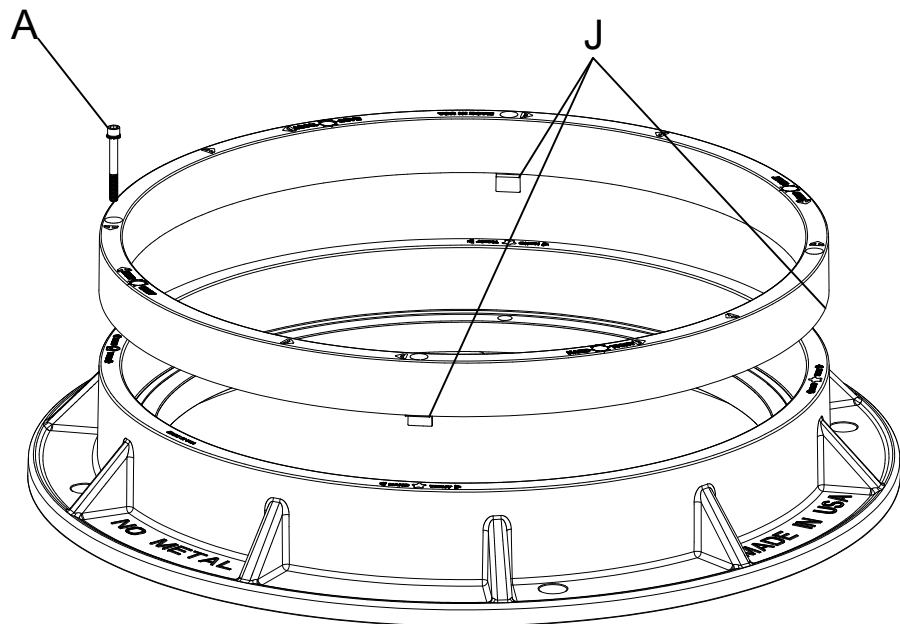
Properly Installed  
Threaded Insert (E)



## Threaded Insert (E).



- 13- Prepare enough epoxy to coat the outer thread of the Threaded Insert (E). CAP Standard epoxy is EA 11C.  
(The next steps require a Drill, not included)
- 14- With the prepared epoxy, apply a light coat on to the last outer thread of the Threaded Insert (E) opposite to the slot.
- 15- Align the Threaded Insert (E) with the hole made in step 11 (the slot must be pointing upward.)
- 16- Attach the Installation Bit (I) to the Drill then insert the Installation Bit's (I) key into the Threaded Insert's (E) slot.
- 17- Install the Threaded Insert (E). Ensure that the Threaded Insert (E) is square or leveled to the surface.



18- Take out one of each: SHCS (5/16"x2 3/4") (A), Mil. Spec Washer (C), Belleville Lock Washer (D).

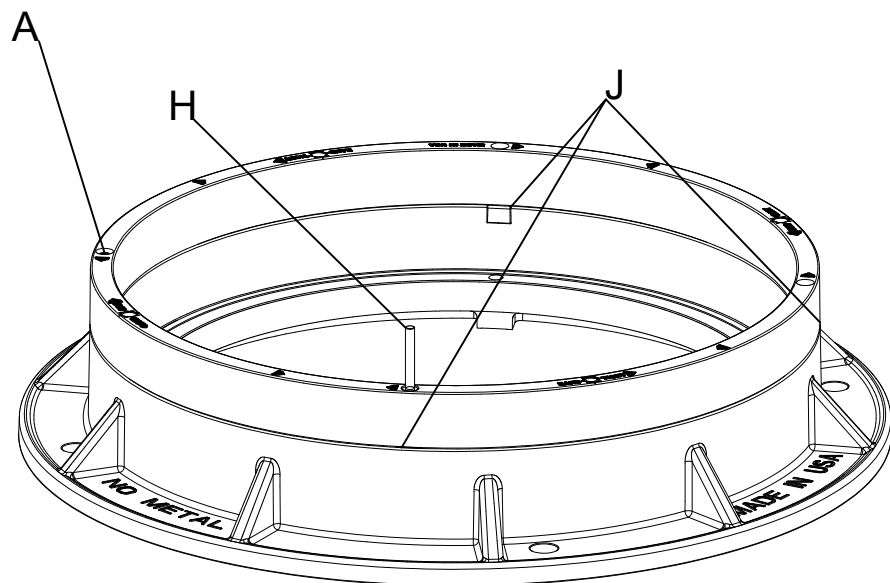
19- Prepare Bolt (A) by first placing a Belleville Lock Washer (D) onto the Bolt followed by a Mil. Spec Washer (C). Washer (D) needs its domed side pointing toward the bolt head.

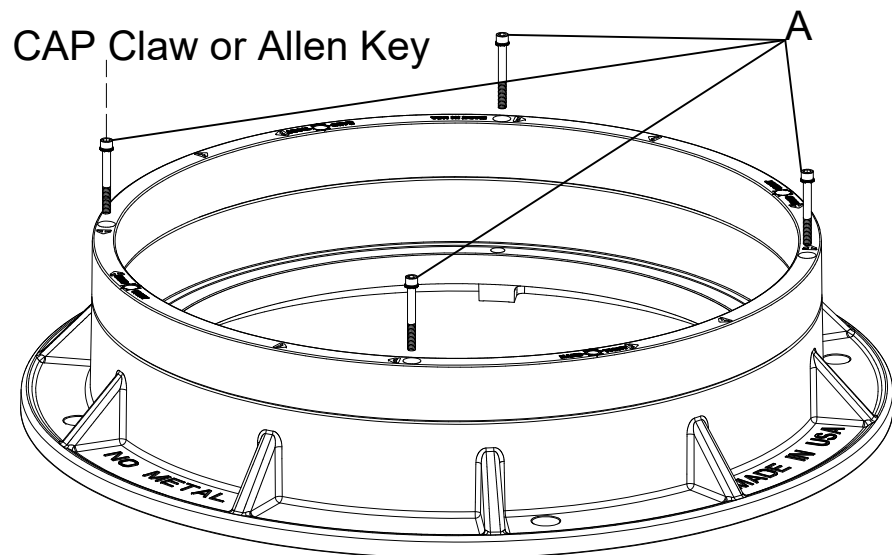
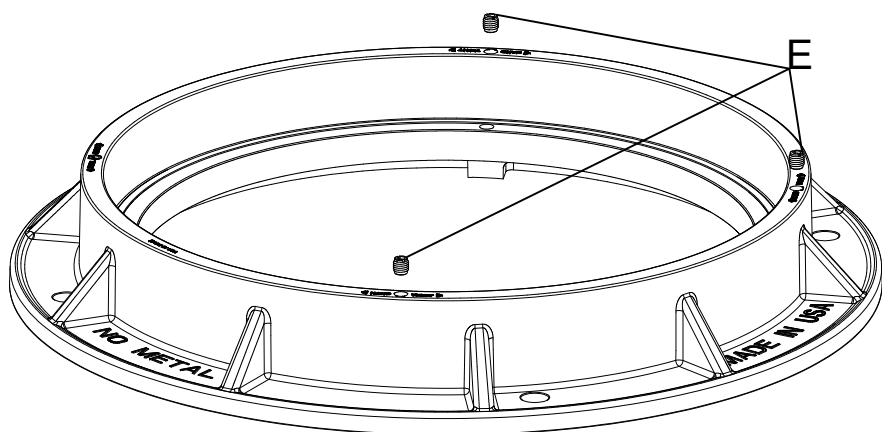
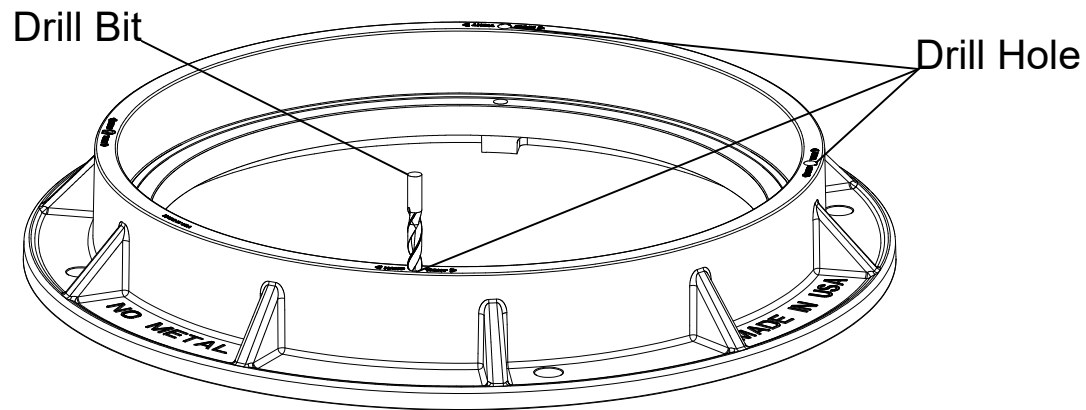
20- Repeat steps 1 & 2 using only 3 Alignment Brackets (J). Align the Frame Extender hole that does not have an Alignment Bracket (J) to the installed Threaded Insert (E) from step 17.

21- Insert the prepared Bolt (A), into the hole without an Alignment Bracket (J) and lightly fasten it to the Threaded Insert (E). Do not over-tighten the bolt.

22- Using Transfer Punch (H) and a Hammer, repeat steps 5 & 6 to the 3 remaining holes.

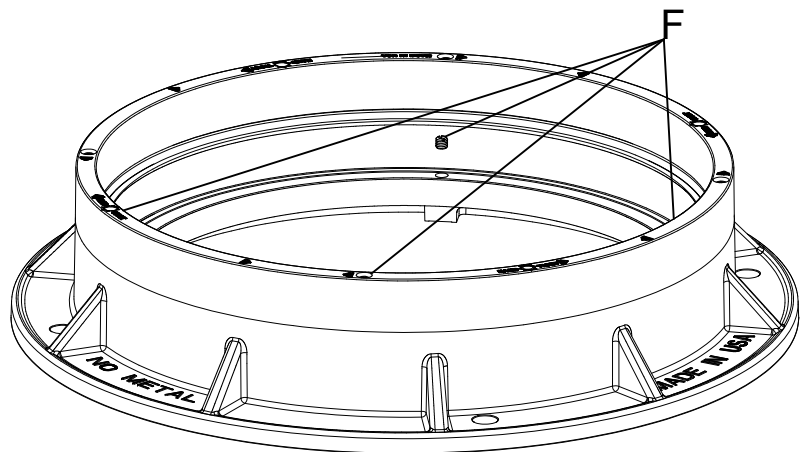
23- Remove Bolt (A) and the Frame Extender.





- 24- Using the 8mm & 14mm Drill Bits, repeat steps 10-12, for each Transfer Punch (H) mark.
- 25- Repeating steps 13-17, install 1 Threaded Insert (E) into each of the newly created holes.
- 26- Remove the tape covering the installed Frame's holes.
- 27- Following the instructions in steps 18 & 19, prepare 3 more Bolts (A).
- 28- Place the Fame Extender on top of the Frame without any Alignment Brackets (J).
- 29- Use the 4 Bolts (A) to fasten the Frame Extender onto the Frame, using the CAP Claw.

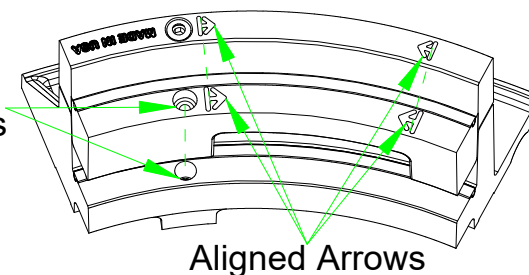




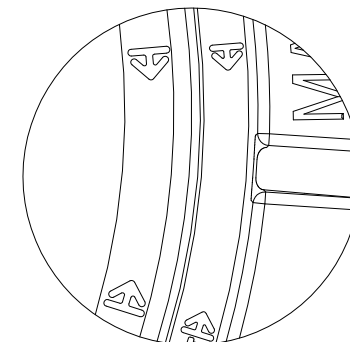
30- While having the Frame Extender fastened, install 4 Thread-locking Inserts (F) into the bolt holes of the Frame with the slot pointing upward. (This step requires a Flat Head Screwdriver, not included)

31- Insert the Shim into the Frame. Align the Shim's arrows with the arrows on the Frame Extender as shown below. The small Bolt holes of the Shim Must align with Frame's small holes as shown below.

Aligned Bolt Holes



Aligned Arrows



32- Following the instruction in step 19, prepare 4 Bolts using SHCS (5/16"x3 1/4") (B).

33- Use the 4 Bolts (B) to fasten the Shim onto the Frame using the Cap Claw.

CAP Claw or Allen Key

