INFERNO MFG. CORP.

Installation Instruction: M121631
Issued: 7-13-21
Rev C

INSTALLATION INSTRUCTIONS FOR
NON-FROST EXTENSION
FOR LIQUID LEVEL GAGES

WARNING: *Do not install or perform any maintenance on non-frost extensions unless the liquid level gage has been relieved of all pressure and has been allowed to reach ambient temperature. A gage in service should first be isolated from the system by closing the upper and lower valves and then drained and DEPRESSURIZED. Do not work on a Level Gage Glass under pressure because the glass could break and cause severe personal injury.*

REQUIRED Use of a Silicone Rubber Sealant
(Dow Corning 732 RTV Sealant)
Use CLEAR silicone rubber sealant between the frost proof extension and the gage glass. The sealant when applied according to these instructions will form a barrier against moisture and frost. Caulking gun is recommended.

Warning: Non-frost extension applications where a silicone rubber sealant is not used may be subject to partial or total loss of visibility due to freezing of moisture between gage glass and extension.

ASSEMBLY STEPS
1. Make sure that the top surface of the gage glass is clean and free of debris. The plastic Non-Frost Extension will butt up to the outside face of the gage glass so any trash on the glass will interfere with a full contact. Use water or alcohol or an ammonia cleaner to clean the face of the glass. Use a clean rag and plenty of cleaning fluid; do not scratch the glass with steel wool or a screw driver when cleaning.

2. Follow all directions on the silicone sealant package. Attach the nozzle and prepare for application by cutting the tip at the 1/4 mark.

3. Take one extension and apply a 1/2" wide bead of clear sealant across its full width and down its full length so that the 1/2" view surface that assembles TOWARD the gage glass is COMPLETELY COVERED. Use a back & forth motion to build up the bead a FULL 3/8" DEEP. Apply sealant on both sides of the extension up a distance of about 1/2" from the face. Now install the extension into the slot of the cover plate on the liquid level gage.
Work the extension down into the slot until it stops on the top surface of the gage glass. Look through the extension to the gage glass. There should be no air bubbles, look for a perfect, clear view of the glass. Excess silicone will flow up one or both edges of the extension. If silicone fails to flow up both sides flush with the top of the gage cover plate then apply additional silicone until the ENTIRE void space between the extension and the recess/slot in the gage cover is FILLED.

Reason: moist air will condense against the cold steel cover plate once in service and frost will build up in any space not filled with silicone. The frost action may lift the extension out of the recess and away from the gage glass, breaking the clear view of the glass. Also moisture trapped in the recess could cause excessive corrosion of the steel cover plate.

The joint between the plastic extension and the gage glass must be tight.
1. Assemble bracket hardware according to photo above.
2. After installation, return gage to service following the gage manufacturer's recommended procedure.

CAUTION: *Failure to follow manufacturer's recommended procedure for returning gage to service may result in glass breakage and/or physical injury to personnel.*

Other Notes:
One tube of D-C 732 in 10.3 ounce size is enough to do about 6 or 8 Non-Frost Extensions. Caulking gun is recommended.

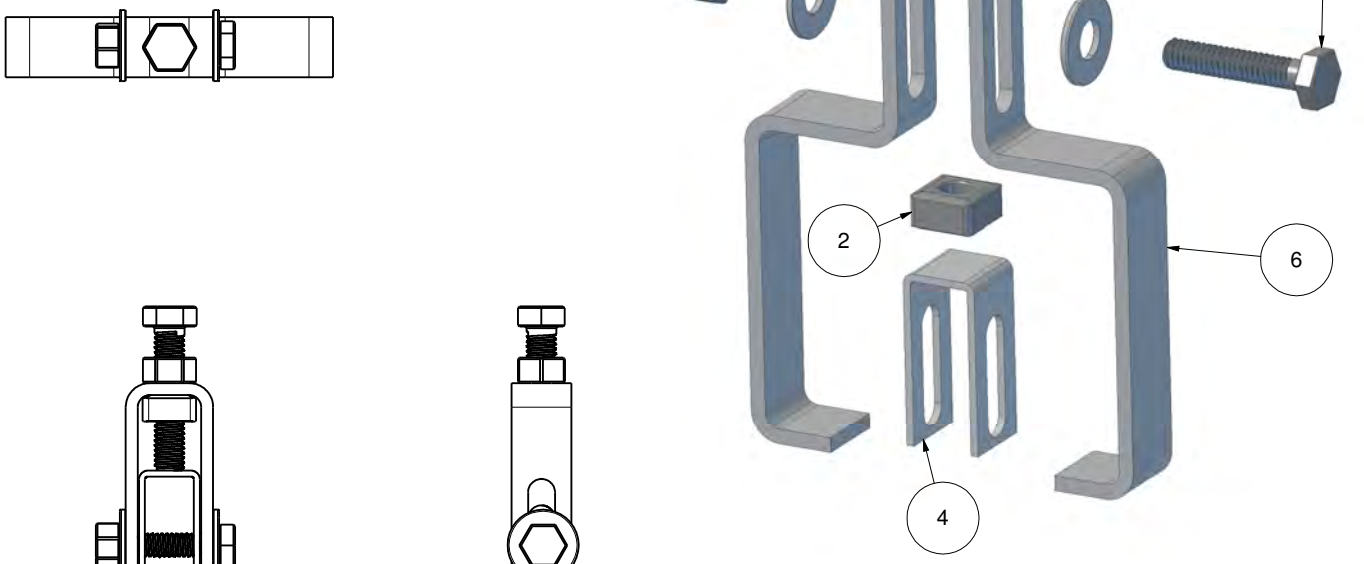
PH (318) 221-8454 FAX (318) 222-4106 www.infernomfg.com

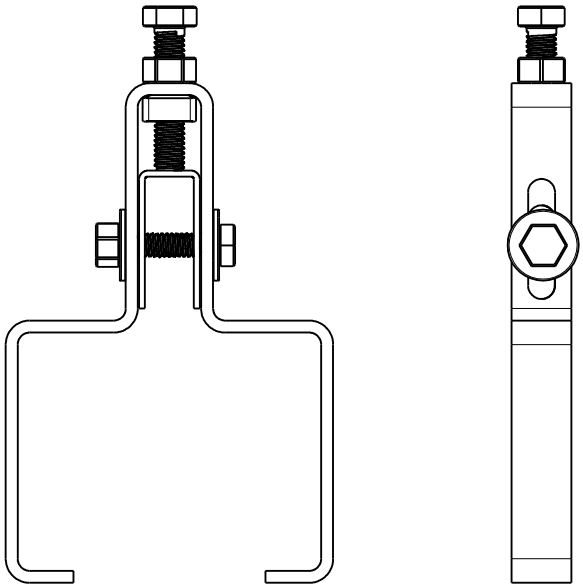
Item	Part Number	Qty	Part Name
1	11743	1	Nut: 5/16-18 Finished Hex 18-8 SS
2	11744	1	Nut: 5/16-18 Square 18-8 SS
3	3080	2	Washer: 1/4 x 5/8 O.D. Flat Wide 18-8 SS
4	11642	1	Bracket: Non-Frost U-Shape SS
5	11738	1	Cap Scew: 5/16 x 1.50 HHCS 18-8 SS
6	11641	1	Bracket: Non-Frost SS
7	11742	1	Cap Scew: 1/4-20 x 1.25 HHCS 18-8 SS
8	3074	1	Nut: 1/4-20 Finished Hex 18-8 SS

Non-Frost Bracket Kit

Dwg: **A181932**
Rev 0, Rev Date:
Created: 12/11/2018
Drawn by: TB Apvd by:

ERP # 11737





INFERNO MFG CORP
Installation Instructions for Non-Frost Extensions

Warning: Do not install Non-Frost Extensions or perform maintenance when Level Gage is under pressure

Step #1

Make sure surface of glass is clean & free of debris; ok to use water, alcohol or an ammonia cleaner
Fill level gage view slot with CLEAR silicone (Dow Corning 732 RTV Sealant)
Be sure to fill entire slot with approx. 1/4" deep layer of sealant

Step #2

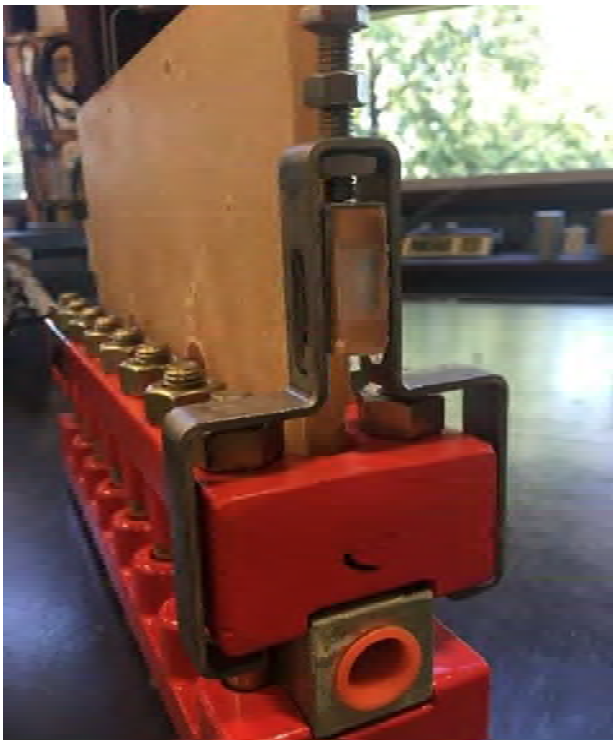
Insert Non-Frost Extension into view slot and press down as far as possible
Excess silicone should flow up the edges of the Non-Frost Extension

Step #3

Place clip over tip of Non-Frost Extension

Step #4

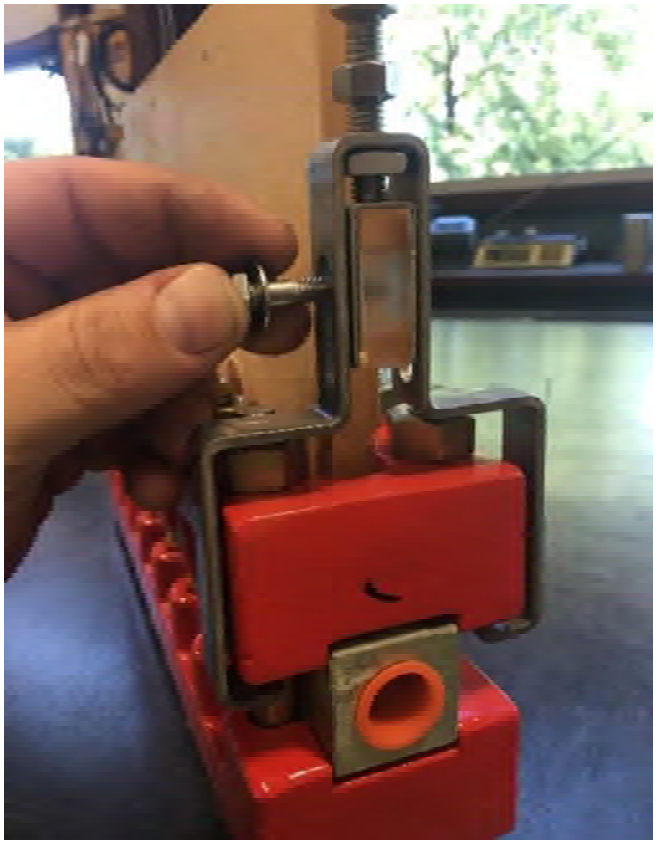
Install bracket over the clip



Step #5

Install side screw to hold bracket in place

Place washer on end of screw, and tighten nut loosely



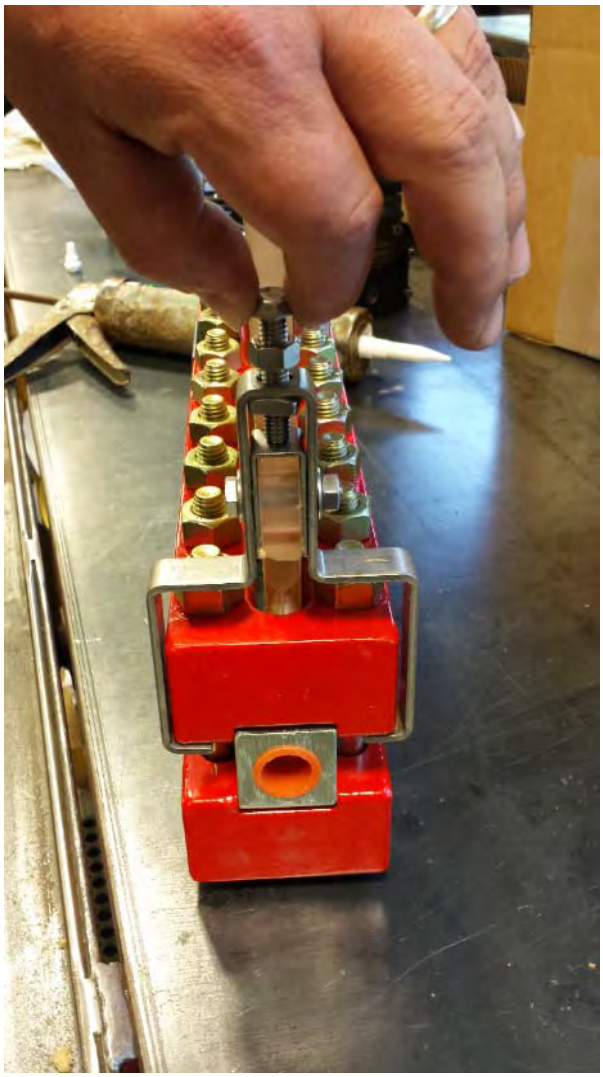
Step #6

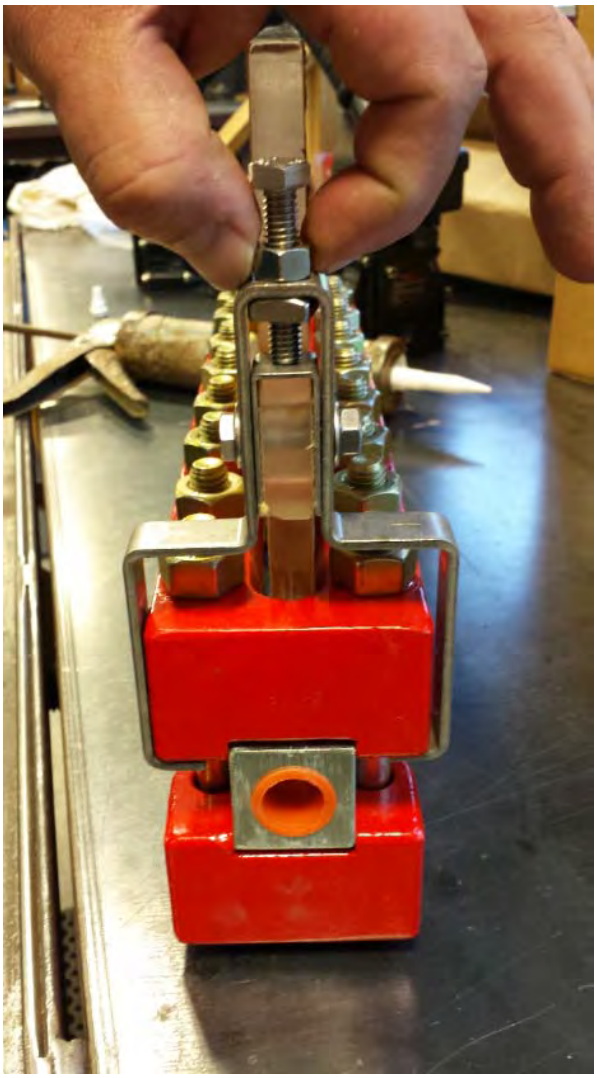
Repeat steps 3-5 for other end

Step #7

Tighten top screws on both brackets simultaneously until brackets are snug on cover and Non-Frost Extension is firmly pressed against glass

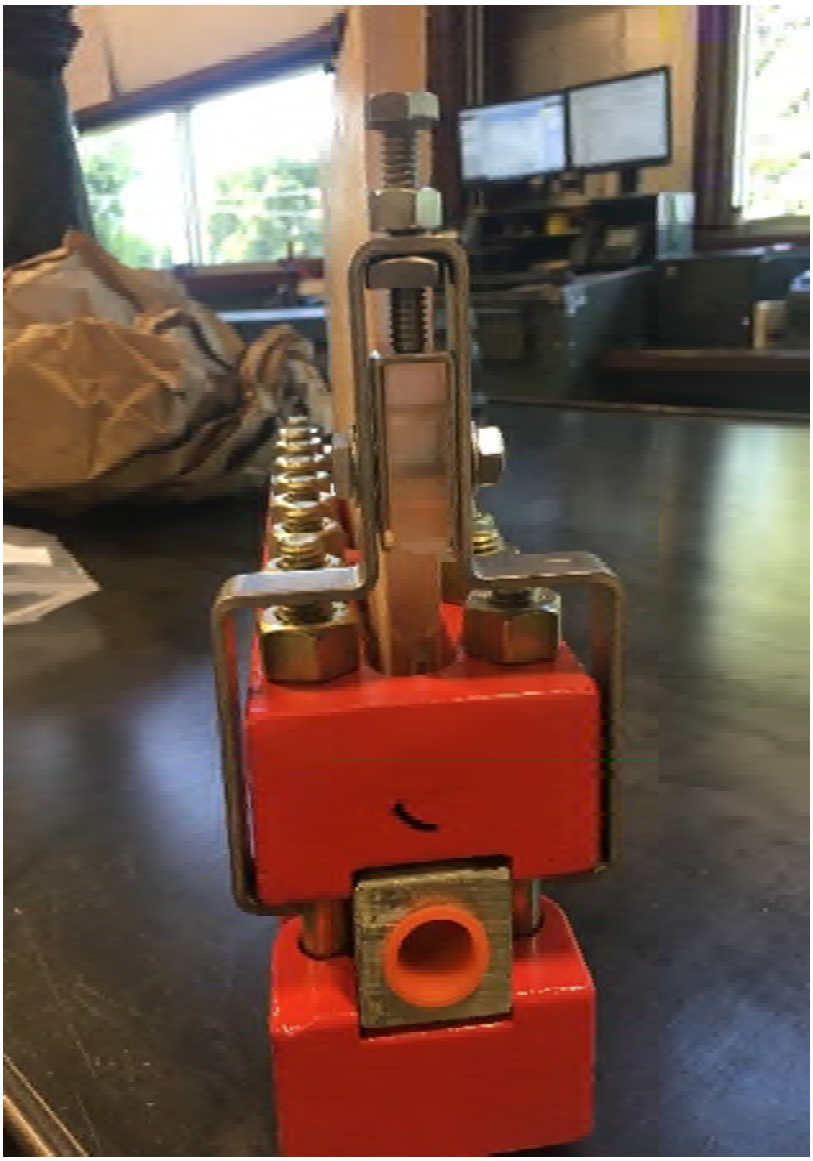
Tighten top jam nuts and side screws to complete the installation





Note - If Silicone has not flowed up so that it is flush with the top of the cover plate, then apply additional silicone until the ENTIRE void space between the Non-Frost Extension and the slot in the gage cover is FILLED

Reason - Moist air will condense against cold cover plate once level gage is in service & frost will build up in any space not filled with silicone. Frost could lift the extension out of the recess & away from the gage glass, breaking the clear fiew of the glass. Also moisture trapped in the recess could cause excessive corrosion of the cover plate.



Note: preceeding photos were taken without use of silicone

Showing Excess Silicone-

An excess is required to displace the air in the cover cavity
Moist air can condense and freeze on surface of glass