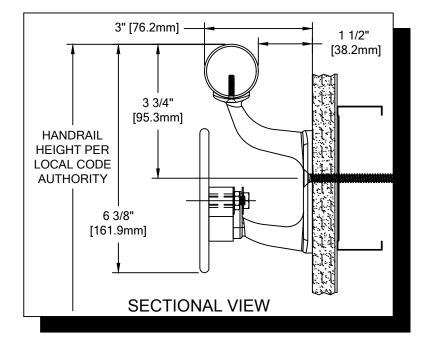
PLEASE READ

PLEASE READ THESE INSTRUCTIONS THOROUGHLY PRIOR TO BEGINNING THE <u>P-RSS HANDRAIL</u> INSTALLATION!

THIS INSTRUCTION SHEET IS INTENDED TO PROVIDE A SPECIFIC GUIDE TO FOLLOW FOR THE INSTALLATION OF THIS <u>P-RSS HANDRAIL</u>. CONTAINED WITHIN IS THE TECHNICAL INFORMATION AND INSTALLATION TECHNIQUES REQUIRED TO COMPLETE AN EFFICIENT, NEAT AND LONG-LASTING INSTALLATION.

INSPECT ALL MATERIALS FOR DAMAGE OR MISSING PARTS. IF YOU DISCOVER DAMAGED OR MISSING MATERIALS, IN THE USA PLEASE NOTIFY THE FACTORY AT (800) 233-8493, AND IN CANADA (888) 895-8955 FOR CUSTOMER SERVICE.

P-RSS HANDRAIL MUST BE INSTALLED IN ACCORDANCE WITH THESE INSTRUCTIONS! <u>FAILURE</u> TO FOLLOW THESE INSTRUCTIONS MAY VOID ANY PRODUCT WARRANTIES AND RESULT IN AN UNSUCCESSFUL INSTALLATION. FOR SPECIFIC QUESTIONS REGARDING THE INSTALLATION OF THIS P-RSS HANDRAIL PLEASE CALL THE FACTORY IN THE USA AT (800) 233-8493 OR EMAIL IWPTECHSUPPORT@C-SGROUP.COM. IN CANADA CALL (888) 895-8955.



IMPORTANT NOTES

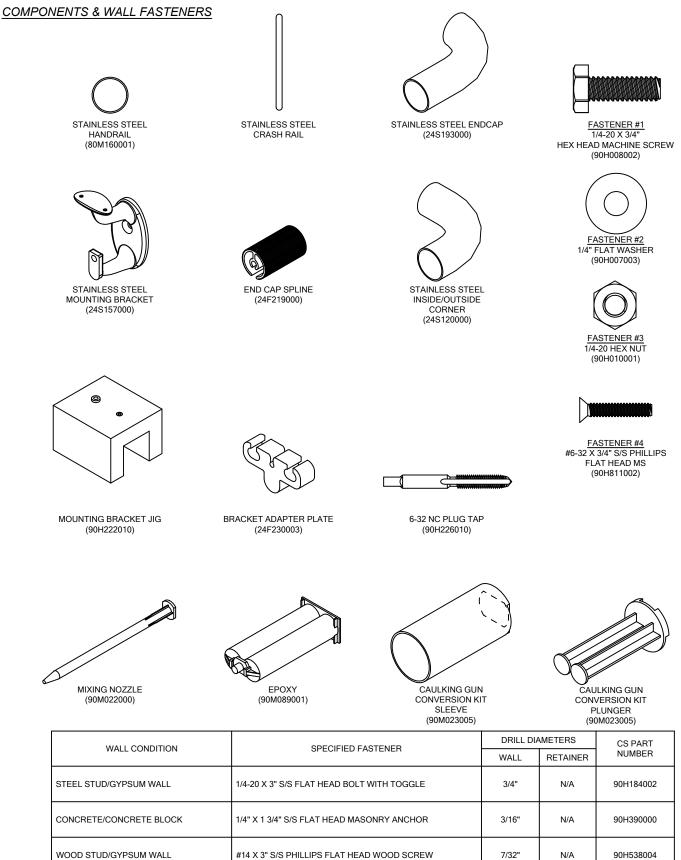
- 1. STAINLESS STEEL MATERIAL HAS BEEN MANUFACTURED TO CUSTOMER SPECIFIED DIMENSIONS AND CAN NOT BE CUT OR MODIFIED ON SITE. TO DO SO COULD VOID THE WARRANTY.
- 2. ALL DIMENSIONS ARE TYPICAL.
- 3. FOR DRYWALL/PLASTER WALL CONSTRUCTION, IT IS RECOMMENDED FOR FASTENERS TO BE ENGAGED INTO METAL/WOOD STUDS TO MAINTAIN MAXIMUM PULLOUT STRENGTH. IF DURING INSTALLATION YOU ENCOUNTER SPECIAL WALL CONDITIONS THAT DO NOT ALLOW FOR DIRECT ATTACHMENT TO THE STUDS, PLEASE CONSULT THE LOCAL AUTHORITY HAVING JURISDICTION.
- 4. INSTALL OUTSIDE CORNERS FIRST.
- 5. INSTALL LONGEST RUN OF HANDRAIL FIRST.
- 6. HANDRAIL SPLICE SHOULD NOT EXCEED 3" [76.2mm] DISTANCE FROM A BRACKET.
- 7. MATERIAL MUST REACH 65°F MIN. TO 75°F MAX. 24 HOURS PRIOR TO INSTALLATION. THIS IS ESSENTIAL TO MINIMIZE EXPANSION AND CONTRACTION.
- 8. MAY REQUIRE USE OF FIRE PUTTY WHEN INSTALLED ON FIRE WALL WITH TOGGLE BOLTS. REFERENCE INSTRUCTIONS <u>24FIREPUTTY</u> FOR FIRE PUTTY INSTALLATION.
- 9. THIS HANDRAIL REQUIRES A MINIMUM OF 2 MOUNTING BRACKETS PER UNIT. THE MINIMUM END CAP-TO-END CAP HANDRAIL LENGTH IS 14 7/8" [377.8mm].
- 10. FOR MORE INFORMATION ON P-RSS HANDRAIL SEE OUR WEBSITE AT www.c-sgroup.com.



16 GA. MIN STEEL STUD AND 16 GA. MIN STEEL STRAPPING / GYPSUM WALL

CONSTRUCTION REQUIRED

(TEK SCREWS)



#14 X 3" PHILLIPS FLAT HEAD SELF DRILLING S/S TEK

SCREW

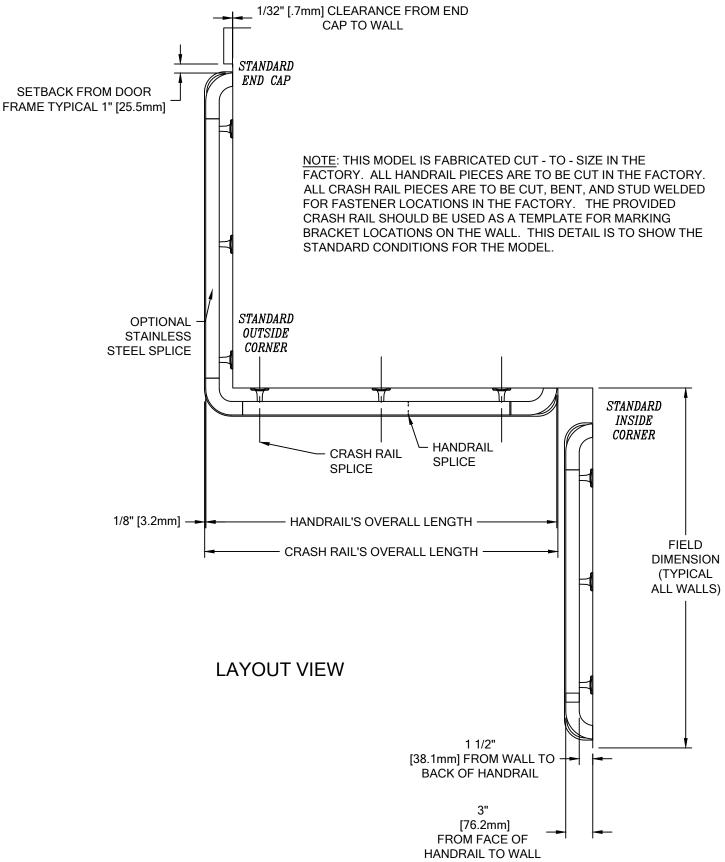
N/A

9/32"

90H230003

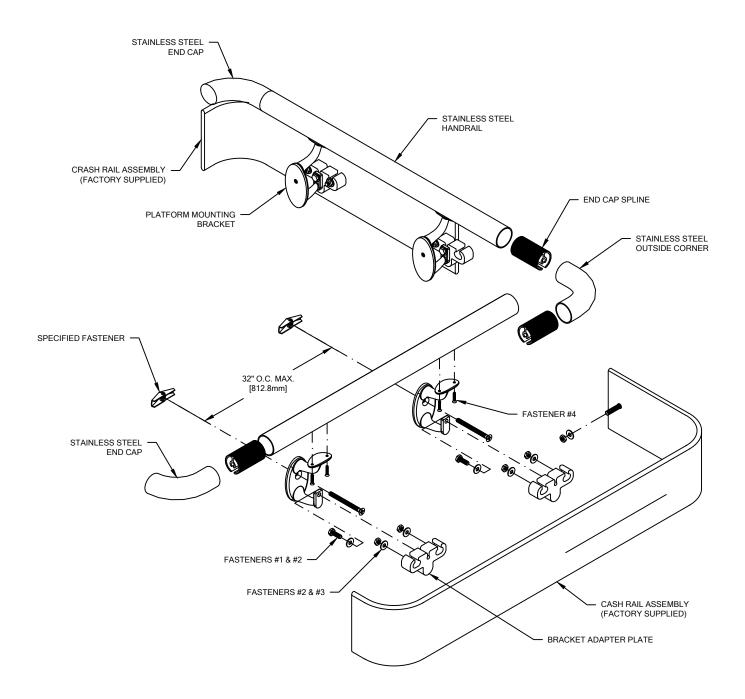


LAYOUT VIEW



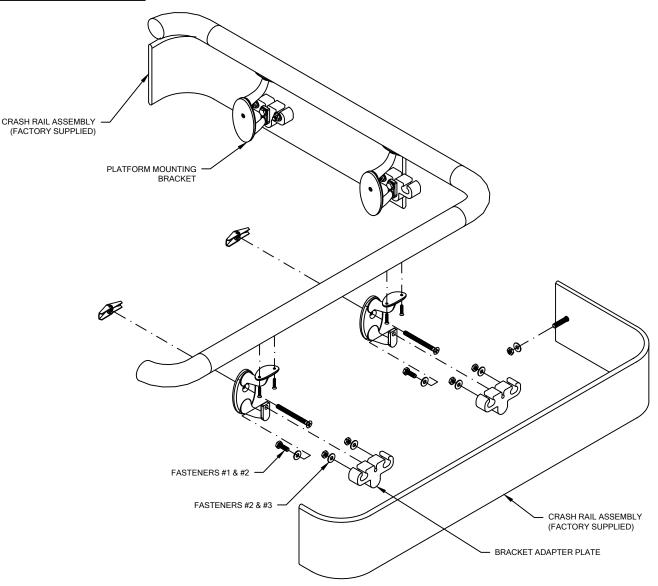


TYPICAL ASSEMBLY



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P-RSS HANDRAIL



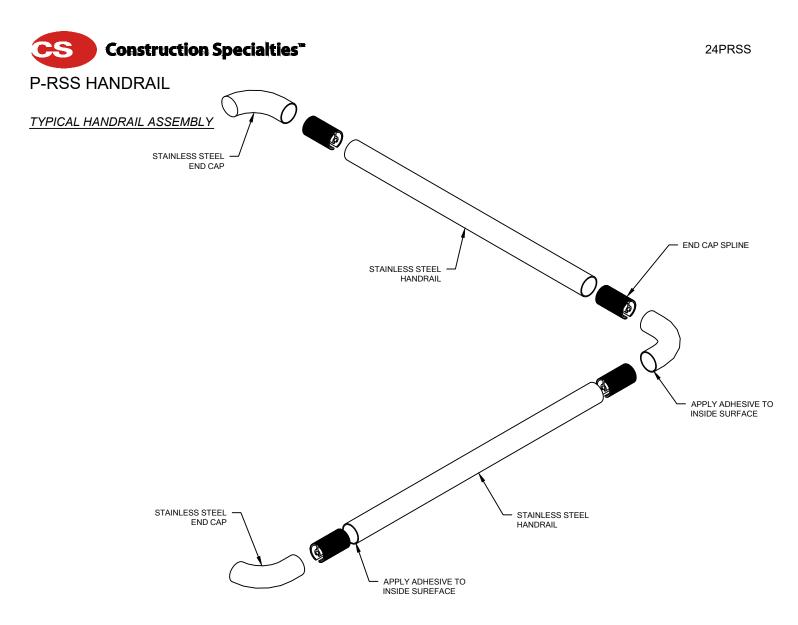
1. USING "LOCAL CODE" REQUIREMENTS, ESTABLISH HANDRAIL HEIGHT ABOVE FINISHED FLOOR. DEDUCT 3 3/4" [95.3mm] AND SNAP A CHALK LINE AT THAT HEIGHT. THIS MARKS THE LOCATION OF THE HOLE FOR THE MOUNTING BRACKET FASTENERS. REFER TO SECTIONAL VIEW.

NOTE: THIS MATERIAL HAS BEEN MANUFACTURED TO CUSTOMER SPECIFIED DIMENSIONS AND CAN NOT BE CUT OR MODIFIED ON SITE. TO DO SO COULD VOID THE WARRANTY.

- 2. ATTACH CRASH RAIL TO THE WALL MOUNTING BRACKETS:
 - DISTRIBUTE MATERIAL. MATCH THE NUMBER ON THE BACK OF THE RAIL TO THE MARK NUMBER ON THE DRAWING. SOME LARGE RUNS REQUIRE MORE THAN
 ONE PIECE OF CRASH RAIL. THESE ARE NOTED WITH A MARK NUMBER AND A LETTER, I.E., 2001A, 2001B.
 - LOCATE A BRACKET ADAPTER PLATE ON EACH SET OF THREADED STUDS ON THE BACKSIDE OF THE CRASH RAIL.
 - SECURE THE BRACKET ADAPTER PLATE BY INSTALLING A 1/4" WASHER AND 1/4-20 NUT ONTO EACH THREADED STUD.
 - ALIGN EACH MOUNTING BRACKET WITH THE BRACKET ADAPTER PLATE'S THREADED HOLE.
 - INSERT 1/4-20 HEX HEAD BOLT AND 1/4" WASHER THROUGH THE MOUNTING BRACKET AND INTO THE MOUNTING BRACKET'S THREADED HOLE. THE BRACKET ADAPTER PLATE IS SLOTTED TO ACCOMMODATE ANY SLIGHT MISALIGNMENT.
 - FASTENERS MUST BE TORQUED TO 150 IN/LBS.

3. DRILL CLEARANCE HOLES IN WALL SURFACE FOR MOUNTING HARDWARE, USING THE CRASH RAIL WITH ATTACHED BRACKETS AS A TEMPLATE. REFERENCE CHART ON PAGE 2 FOR CORRECT DRILL DIAMETERS.

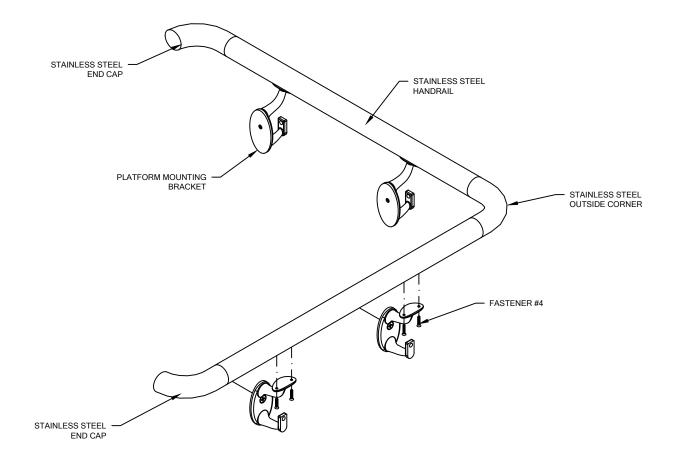
- 4. ONCE BRACKET LOCATIONS ARE ESTABLISHED ON THE WALL, REMOVE BRACKETS FROM THE RAIL.
- 5. ATTACH BRACKETS TO WALL WITH SPECIFIED FASTENERS.



- 6. DISTRIBUTE SUPPLIED CUT TO SIZE HANDRAIL MATERIAL. MATCH THE NUMBER ON THE RAIL TO THE MARK NUMBER ON THE DRAWING. SOME LARGE RUNS REQUIRE MORE THAN ONE PIECE OF HANDRAIL. THESE ARE NOTED WITH A MARK NUMBER AND A LETTER, I.E., 2001A, 2001B.
- 7. ATTACH END CAPS AND/OR INSIDE/OUTSIDE CORNERS (A FLAT SURFACE IS REQUIRED):
 - TO PROTECT FINISHED SURFACES FROM ADHESIVE DURING ASSEMBLY APPLY MASKING TAPE TO END OF HANDRAIL'S SURFACE AND ALSO TO EXTERIOR SURFACE OF END CAP (OR INSIDE/OUTSIDE CORNER).
 - USING 100 GRIT SANDPAPER, SAND THE INTERIOR SURFACE OF THE HANDRAIL. CLEAN THE INTERIOR SURFACE OF HANDRAIL WITH ISOPROPYL (RUBBING) ALCOHOL.
 - DRY FIT THE ALUMINUM SPLINE BEFORE APPLYING ADHESIVE. THE ALUMINUM SPLINE SHOULD BE INSTALLED WITH 5/8" [15.8mm] OF THE ALUMINUM SPLINE
 PROTRUDING FROM THE END OF STAINLESS STEEL HANDRAIL.
 - ONCE TESTED, REMOVE AND APPLY 1/8" BEAD OF ADHESIVE TO SANDED, INTERIOR SURFACE (REFERENCE CAULKING GUN CONVERSION KIT FIGURES 3 & 4)
 AND PERMANENTLY ATTACH ALUMINUM SPLINE.
 - USING 100 GRIT SANDPAPER, SAND THE INTERIOR SURFACE OF THE END CAP (OR INSIDE/OUTSIDE CORNER). CLEAN THE INTERIOR SURFACE OF END CAP
 (OR INSIDE/OUTSIDE CORNER) WITH ISOPROPYL (RUBBING) ALCOHOL. APPLY 1/8" BEAD OF ADHESIVE TO SANDED, INTERIOR SURFACE.
 - THE ADHESIVE ONLY ALLOWS FOR 8 TO 12 MINUTES OF WORKING TIME. INSTALL END CAP (OR INSIDE/OUTSIDE CORNER) OVER ALUMINUM SPLINE. FOR A
 PROPER SEAM, STAINLESS STEEL END CAP (OR INSIDE/OUTSIDE CORNER) MUST BE TIGHTLY FITTED TO THE HANDRAIL. PARTS CAN BE HANDLED IN 1-1/2
 HOURS AND WILL BE FULLY CURED AFTER 24 HOURS.
 - IF HANDRAIL SPLICE IS REQUIRED, INSTALL BEFORE SECOND END CAP.
 - INSTALL SECOND END CAP (OR INSIDE/OUTSIDE CORNER) AS PREVIOUSLY DESCRIBED. USING A FLAT SURFACE, ROTATE SECOND END CAP (OR INSIDE/OUTSIDE CORNER) UNTIL PARALLEL AND PROPERLY ORIENTED.



TYPICAL HANDRAIL ASSEMBLY



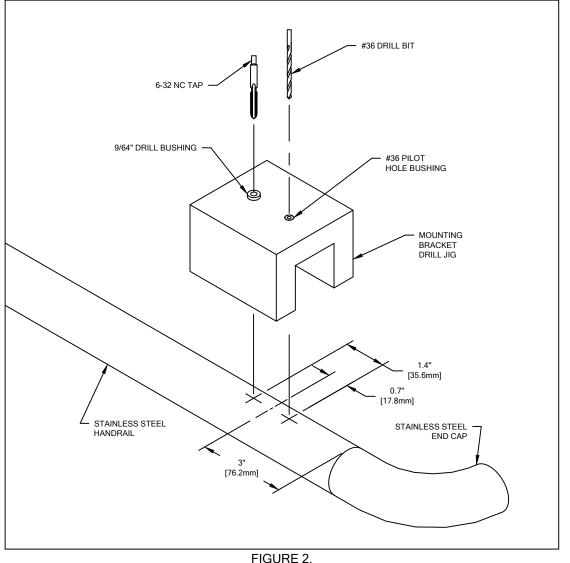
- 8. ATTACH MOUNTING BRACKET ASSEMBLIES (A FLAT SURFACE IS REQUIRED):
 - HANDRAIL MOUNTING HOLES ARE TO BE LOCATED USING INSTALLED WALL BRACKETS FROM STEP 5.
 - ONCE HOLE LOCATIONS ARE MARKED USE A FLAT SURFACE ORIENT THE HANDRAIL (WITH END CAPS) UPSIDE DOWN.

• DRILL PILOT HOLES IN BOTTOM SURFACE OF STAINLESS STEEL HANDRAIL AS PER MOUNTING BRACKET DRILL JIG INSTRUCTIONS (SEE FIGURE 2). <u>CAUTION:</u> BE SURE THE HANDRAIL DOES NOT ROTATE WHEN DRILLING PILOT HOLE.

• BEFORE DRILLING CONSECUTIVE BRACKET LOCATIONS, INSERT A #36 DRILL BIT THROUGH MOUNTING BRACKET DRILL JIG AND INTO PILOT HOLE. THIS STEP WILL HELP ENSURE HANDRAIL DOES NOT ROTATE WHEN DRILLING FOR ADDITIONAL MOUNTING BRACKETS. A SECOND MOUNTING BRACKET DRILL JIG HAS BEEN PROVIDED TO DRILL FOR ADDITIONAL MOUNTING BRACKETS.

- 9. FASTEN THE STAINLESS STEEL HANDRAIL TO THE WALL BRACKETS IN SUCCESSION BY INSERTING TWO (2) #6-32 X 3/4" S/S PHILLIPS FLAT HEAD MACHINE SCREWS THROUGH THE UNDERSIDE OF THE BRACKET INTO THE STAINLESS STEEL HANDRAIL.
- 10. ONCE HANDRAIL HAS BEEN ATTACHED TO THE MOUNTING BRACKETS, REFER BACK TO STEP 2 TO ATTACH THE CRASH RAIL TO THE WALL BRACKETS. <u>CAUTION</u>: OVER TORQUEING MAY CAUSE DAMAGE TO THREADS.

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MOUNTING BRACKET DRILL JIG

MOUNTING BRACKET DRILL JIG INSTRUCTIONS. REFER TO FIGURE 2.

- 1. PLACE HANDRAIL ON A FLAT WORKING SURFACE AND ROTATE UNTIL BOTTOM OF HANDRAIL IS FACING UPWARD.
- 2. POSITION DRILL JIG OVER STAINLESS STEEL HANDRAIL. THE DRILL JIG'S FEET MUST SIT FLAT ON LEVEL WORKING SURFACE. LOCATE CENTER OF #36 PILOT DRILL HOLE OVER CORRESPONDING LOCATION FOR MOUNTING BRACKET ASSEMBLY.
- 3. DRILL A #36 PILOT HOLES IN BOTTOM OF HANDRAIL.
- 4. POSITION TAP END OF MOUNTING BRACKET JIG OVER PREVIOUSLY DRILLED #36 PILOT HOLE. USE 9/64" DRILL BUSHING TO CORRECTLY THREAD PILOT HOLE WITH 6-32 NC TAP (PLUG CHAMFER TYPE RECOMMENDED).



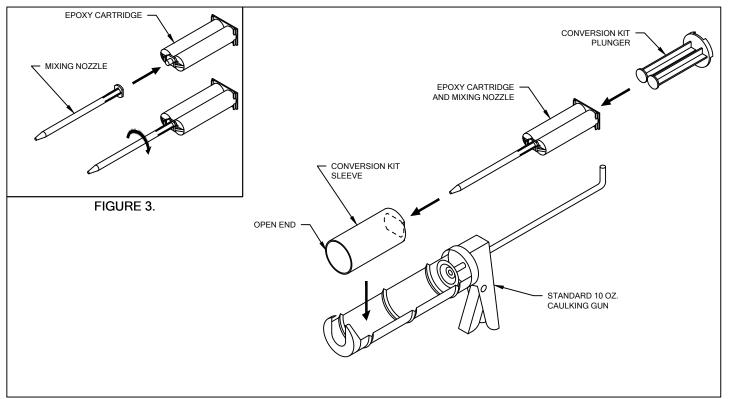


FIGURE 4. CAULKING GUN CONVERSION KIT

EPOXY CARTRIDGE AND MIXING NOZZLE. REFER TO FIGURE 3.

- 1. REMOVE CAP AND GASKET FROM THE END OF EPOXY CARTRIDGE BY TWISTING 90°.
- 2. INSTALL MIXING NOZZLE ON THE FRONT OF EPOXY CARTRIDGE AND LOCK IN PLACE BY TWISTING 90°.

CAULKING GUN CONVERSION KIT. REFER TO FIGURE 4.

- 1. INSERT EPOXY CARTRIDGE AND MIXING NOZZLE INTO OVAL OPENING OF SLEEVE. NOTE THE LOCATION OF OPEN END.
- 2. PLACE PLUNGER IN THE BACK END OF CARTRIDGE.
- 3. PLACE THE CONVERSION KIT, WITH MIXER NOZZLE AND EPOXY CARTRIDGE, IN A STANDARD 10 OZ CAULKING GUN AS SHOWN IN FIGURE 4. PLUNGER WILL ATTACH TO CIRCULAR PUSH PLATE ON CAULKING GUN.

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05/15/2025