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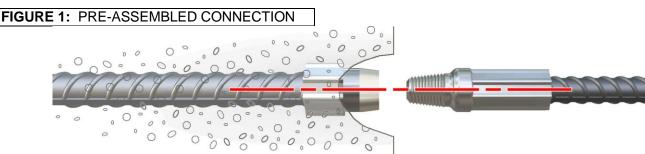
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## INSTALLATION INSTRUCTIONS FOR FIELD ASSEMBLY OF TAPER THREADED GRIP-TWIST<sup>®</sup> COUPLERS TO BUTTONHEAD EXTENDER (BNE)

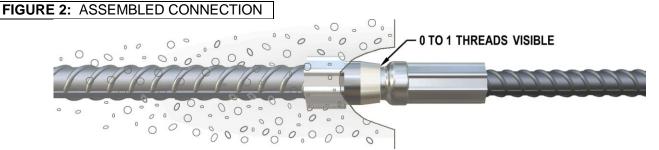
## FABRICATOR IS RESPONSIBLE FOR PROVIDING THESE INSTRUCTIONS TO THE PLACER AND/OR CONTRACTOR.

Taper Threaded Grip-Twist<sup>®</sup> Male and BUTTONHEAD Extender (BNE) couplers are shipped with color-coded plastic caps and plugs to protect the threads. These should be kept in place until time of assembly. If missing, obtain the correct caps and/or plugs from the manufacturer. If thread damage is discovered, it must be corrected before assembly to avoid premature binding. Minor damage can be fixed using a thread file, or a thread cleaning tool. DO NOT TRY TO ASSEMBLE DAMAGED THREADS. All couplers are marked with the intended rebar size. Take care to install the correct size Male coupler into the corresponding size BUTTONHEAD Extender (BNE) coupler. DO NOT USE WITH REBAR THAT IS LARGER OR SMALLER THAN THE INTENDED BAR SIZE. STORE COUPLERS IN A CLEAN, DRY PLACE UNTIL READY TO INSTALL.

- CAUTION: When initially placing BUTTONHEAD Extender (BNE) couplers, make sure they are completely swaged, and that the threads are protected. Check to ensure thread plugs and caps are installed in all female threads of the BNE prior to pouring concrete around or over the placed couplers. DO NOT PLACE REINFORCING BAR IF SWAGING IS NOT CORRECT, AND DO NOT POUR CONCRETE IF THREADS ARE NOT PROTECTED.
- Locate previously placed BUTTONHEAD Extender (BNE) couplers from earlier stages of construction. Remove the protective cap from the TTGT Male coupler and the protective cap and plug from the BNE coupler and check both external (Male) and internal (BNE) threads for cleanliness. Clean off any debris and/or foreign matter. **DO NOT USE CORROSIVE ACIDS**. Any thread damage must be corrected as noted above prior to installation.
  - NOTE: ButtonHead Extender (BNE) couplers are typically placed well ahead of time in staged construction. It is often necessary to chip away concrete to locate them prior to extending the rebar connection using the Taper Threaded Grip-Twist male coupler.
- Locate the Male coupler to the BUTTONHEAD EXTENDER (BNE), and line them up as straight as possible. See FIGURE 1 for pre-assembled connection. DO NOT ALIGN THE REBAR. Align the COUPLERS so that the threads will screw together without binding.



3) After the initial thread location, rotate the free rebar clockwise making sure the two coupler halves remain aligned. If you feel the threads starting to prematurely bind, DO NOT FORCE THEM. Shake the free end of the rebar while turning, allowing the free end of the rebar to rotate in its own natural circle with the coupler threads aligned. Continue to rotate (approximately 4 – 5 rotations) until FULLY ENGAGED and SNUG. See FIGURE 2 for assembled connection.



NOTE: If the Male threads do not properly engage the BNE during assembly, stop immediately. Disassemble the connection to determine the problem. Possible causes of mis-assembly may be mis-matched thread sizes, contaminated threads (i.e. concrete, dirt, etc.) or damaged threads. Re-assemble only after the problem has been identified and corrected.

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- 4) A chain wrench or pipe wrench can be used to snug and tighten the Male couplers to the BUTTONHEAD BNE as needed. Always consider your own **personal safety**. Make sure you are securely positioned and that you will not slip or fall during installation. Use only good quality wrenches that will not round-out.
  - NOTE: Long lengths of rebar, especially large diameter bars, are heavy. To overcome rebar weight, it may be necessary to use an extension bar. As necessary, use the following wrench lengths as a guide: Bar sizes #4 #6 (16-19 mm) = 8 12" (20-30 cm) length; Sizes #7 #8 (22-25 mm) = 12 18" (30-45 cm) length; Sizes #9 #11 (29 36 mm) = 18 24" (45-60 cm) length. DO NOT WIRE TIE BARS UNTIL AFTER FULL ASSEMBLY.
- 5) After assembly, inspect for complete swaging of the Male TTGT coupler and proper thread engagement. For taper threads, some variation in the number of exposed threads is natural due to the thread tolerance and run-out. In general, it is typical to see 0 to 1 complete thread(s) after full assembly, per FIGURE 2. If needed, fully assembled taper threads can be double-checked using a chain wrench or pipe wrench as described above, to ensure the couplers are snug. IT IS NOT NECESSARY TO USE A TORQUE WRENCH OR APPLY A HIGH TORQUE VALUE.