

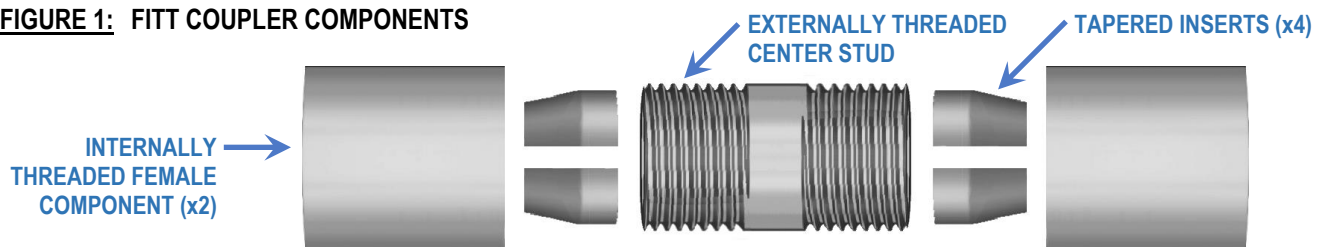


## INSTALLATION INSTRUCTIONS FOR BPI® FITT® COUPLER ON GRADE 60 [METRIC GRADE 420] REINFORCEMENT BAR

The BPI® FITT® Coupler is a field installed threaded mechanical splice that comes preassembled and ready to install on reinforcement bar ends. The FITT Coupler should **NOT** be disassembled prior to installation. If it is necessary to reassemble the FITT Coupler, due to having to remove it from a bar or because it came apart during shipping and/or handling, special care should be taken to place the four tapered inserts (two per side) correctly in the tapered area inside the female component prior to threading in the center stud. **DO NOT USE ON REINFORCEMENT BAR THAT IS LARGER OR SMALLER THAN THE INTENDED BAR SIZE. STORE FITT COUPLERS IN A CLEAN, DRY PLACE UNTIL READY TO INSTALL.**

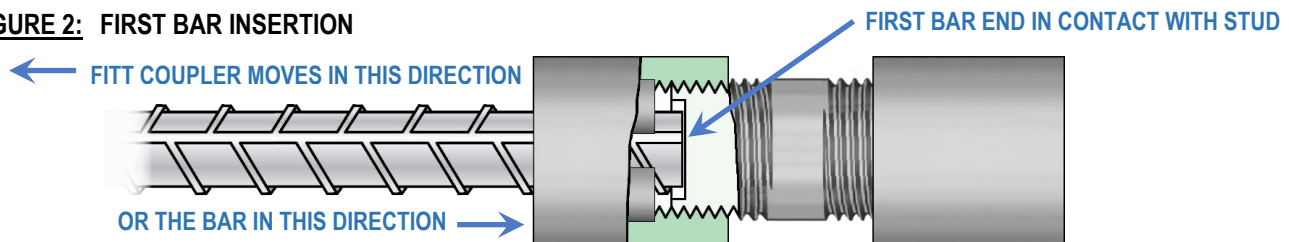
- 1) The FITT Coupler consists of several preassembled components – two internally threaded female components (one each end), four tapered inserts (two inside each end) and the externally threaded male center stud – all of which should be present and in place prior to installing on the reinforcing bar end. **DO NOT PLACE ON REBAR ENDS THAT ARE CONTAMINATED WITH DIRT, OIL, CONCRETE, ETC.**

**FIGURE 1: FITT COUPLER COMPONENTS**



- 2) To install the FITT Coupler on reinforcement bar, push the first bar end into the female component, past the internal tapered inserts, until it comes in solid contact with the center stud. The end of the rebar should be kept in contact with the stud while hand tightening the first side. In all cases, consider your own **personal safety** during installation. Make sure you are securely positioned and that you will not slip or fall. It is recommended to wear gloves while handling the FITT Coupler.

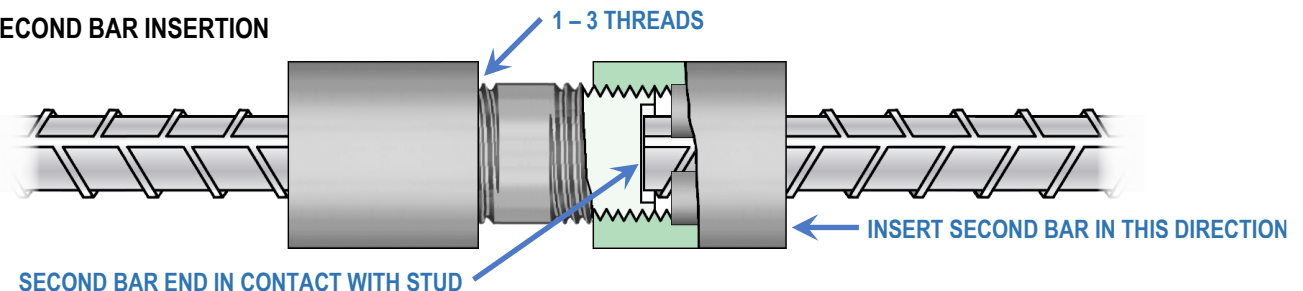
**FIGURE 2: FIRST BAR INSERTION**



If problems occur during installation, and it becomes necessary to disassemble the FITT Coupler, **ENSURE THE TAPERED INSERTS ARE NOT LOST AND THAT THEY ARE CORRECTLY PLACED INSIDE THE FEMALE(S) DURING REASSEMBLY AS SHOWN IN FIGURE 1.**

- 3) After the initial insertion and alignment of the FITT Coupler on the first bar end, hold the stud in place while tightening the first Female side down by hand. The initial hand tightening should push the tapered insert teeth into the rebar enough for the FITT Coupler to hold in place on the first bar prior to insertion of the second bar. It is typical for there to be 1 to 3 exposed threads after hand tightening.
- 4) After tightening the first side, insert the second bar into the female component on the other side, past the internal tapered inserts, until it comes in solid contact with the center stud. The end of the bar should be kept in contact with the stud while hand tightening the second side.

**FIGURE 3: SECOND BAR INSERTION**



- 5) After the second bar insertion, hold the stud in place while tightening the second Female side down by hand. It is typical for there to be 1 to 3 exposed threads after hand tightening.
- 6) To complete the coupler installation, tighten the second Female component as shown in **FIGURE 4** using a standard pipe wrench, while holding the first Female component in place with a second wrench, until no additional tightening is possible. Use only good quality wrenches that will not round-out.

**FIGURE 4: FINAL TIGHTENING OF ASSEMBLED CONNECTION**



- 7) Fully assembled and installed FITT Couplers can be checked using the same pipe wrenches as described above. No additional tightening should be required. **IT IS NOT NECESSARY TO USE A TORQUE WRENCH OR APPLY A HIGH TORQUE VALUE.**