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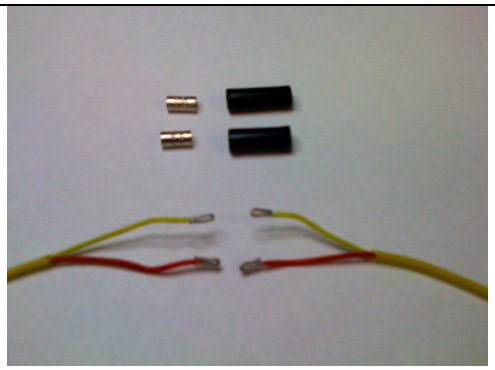
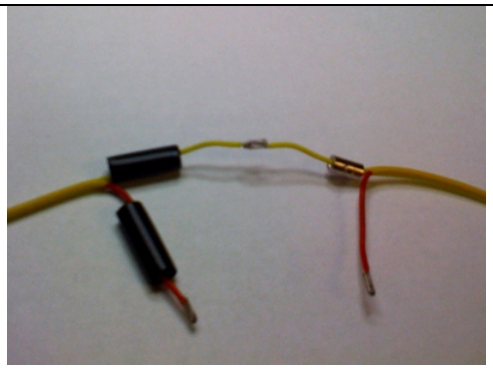
Making a Solder-Free CHT Parallel Splice

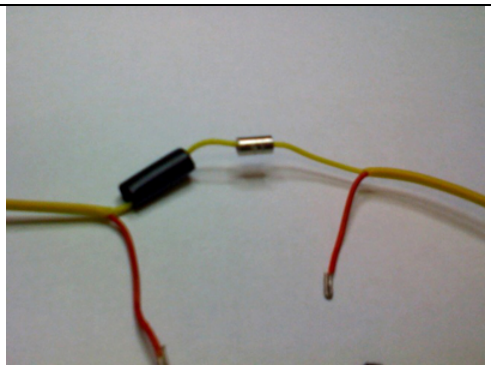
Since Bayonet CHTs are made with short length leads, extending them is often necessary. CHTs should be extended with type-K extension wire directly to the RDAC, or if the RDAC is mounted outside the engine compartment (or if you are connecting directly to a Single instrument) then type-K extension should be used at least until the sender lead exits the engine compartment (where temps are high).
Our CHT extension kit includes type-K thermocouple wire, splice barrels, and a length of meltable-inner heat shrink tubing. This heat shrink gets quite soft inside when it is heated up, and this eliminates all air inside the splice and makes an airtight seal. We use Raychem SCL-3/16 heat shrink.



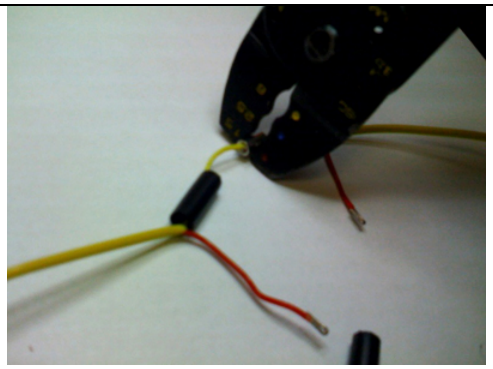
1. Strip the CHTs and make little loops with the ends. Do the same with the type-K extension wire. Prepare the splice barrels and heat shrink.



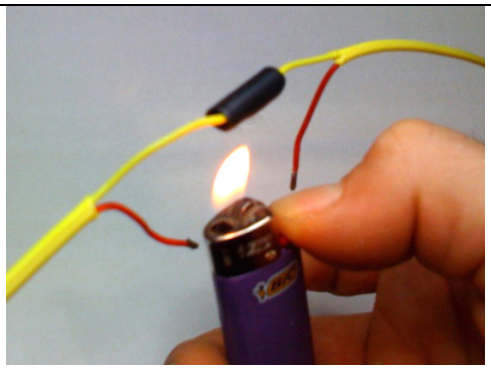
2. Place a splice barrel and short length of meltable-inner shrink wrap on the wires. Lay the CHT and type-K extension loops over each other.



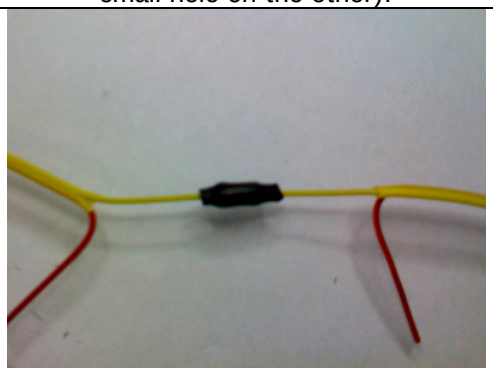
3. Slide the splice barrel over the parallel loops.



4. Crimp the splice barrel with a crimping tool (use a crimping tool with a grip for non-insulated terminals – the ones that have a cradle on one side and pierce a small hole on the other).



5. Slide the meltable-inner heat shrink over the splice and heat with a heat gun or lighter.



6. That is a solder-free, airtight and airless parallel thermocouple splice. Repeat as necessary.