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| **Procedure Name** | **COTS Hybrid Hot Fire 03/21/2015 – Plumbing Setup** |
| **Summary** | **This procedure includes following (1) checking SV’s, (2) plumbing setup, (3) attaching plumbing to motor, and (4) leak check.** |

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|  | **Name** | **Date** |
| **Created By** |  |  |
| **Started By** | **Kevin Mark** | **3/10/15** |
| **Finished By** |  |  |

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| **Materials** | |
| **Name** | **Quantity** |
| **Assembled motor** | **1** |
| **Foam insulated hose** | **1** |
| **Un-insulated steel hose** | **1** |
| **Tank plumbing assembly** | **1** |
| **Pressure release plumbing assembly** | **1** |
| **K-Bottle** | **1 (+backups)** |
| **Chalkboard** | **1** |
| **Wrench** | **2** |
| **Duct Tape** | **1 Roll** |
| **Weights (Rocks/Hunks of Metal)** | **1~3** |
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| **Participants** | |
| **Name** | **Date** |
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| **#** | **Done (initial)** | **Checked**  **(initial)** | **Directions** |
|  |  |  | Check fill and dump solenoids (Actuate from launch box and listen for clicks) |
|  |  |  | Connect foam insulated hose to check valve on pressure release assembly (Follow AN Rule)[[1]](#footnote-1) |
|  |  |  | Connect braided vent hose to dump solenoid on release assembly |
|  |  |  | Connect T-Hose to release assembly, opposite (downstream of ) the check valve |
|  |  |  | Bring out K-Bottle and attach to inversion apparatus (metal cone or wooden stand) |
|  |  |  | Invert K-Bottle |
|  |  |  | Cover K-Bottle with thermal insulation |
|  |  |  | Connect tank plumbing assembly to K-Bottle |
|  |  |  | Connect foam insulated hose to tank plumbing assembly (AN Rule) |
|  |  |  | Connect the two black nylon fill lines from the motor to the T joint on the release assembly   * Pull out green ring on quick-connects while pushing in nylon tube to ensure a seal |
|  |  |  | Attach (tape) clear vent line to chalkboard for visibility |
|  |  |  | Position and secure chalkboard |
|  |  |  | Weigh down vent hose to prevent it from whipping around |
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1. AN Rule: ¼ Turn past tight [↑](#footnote-ref-1)