# STATIC TEST MANUAL

This manual is meant to be used in the assembly of the motor and preparation for a static test.

Static Test Activities

1. Motor Assembly
2. Ignition Circuit
3. Test site Assembly

## Test Stand Assembly

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| **No.** | **Activity** | **Checkbox/Remarks** |
| 1 | Assemble the O-rings onto the Bulkhead and nozzle |  |
| 2 | Use a **spanner** to bolt the Bulkhead onto the casing. Use a little oil on the O-rings for smooth assembly. Ensure all the threads are bolted. |  |
| 3 | Use a **sealant** to seal the corners of the Bulkhead (inside) |  |
| 4 | Add a small amount of fine-grain **soil** to the inside surface of the Bulkhead |  |
| 5 | Use a piece of wood to **compact** the soil |  |
| 6 | Lay out a piece of paper (book cover) and coat its surface with **quick-set epoxy** |  |
| 7 | On the laid-out paper, lay a piece of ceramic clothing and add the grains on top. Roll the paper, ceramic, and grains into a single assembly. (Use gloves when working with ceramic) |  |
| 8 | Carefully insert the grain assembly into the casing. Rotate it slowly to ensure entry. |  |
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