

## Motor Static Test Checklist

First  is for taking out to test site  
Second  is for brought back to lab

Clinic van or Electric cart

In Rolling Case 1 (foam filled)

- Calibration weights: 10 lb (2), 5 lb (2)
- Calibration rods (29 mm & 38 mm)
- Motor holders (26-60, 29-120, 38-120)
- Tools & Hardware Case (Redundant tools are OK. At a minimum have the following)
  - Interlock igniter clip
  - 2 PMR-29/38 motor retainers
  - 4-40 screws for motor retainer
  - Extra 1/4-20 anchor plates
  - Extra 1/4-20 screws
  - Extra M6x16 screws for load cell
  - Allen wrench, 3/16"
  - Allen wrench, 3/32"
  - Allen wrench, 4mm
  - Long-nose pliers
  - Wire strippers
- First Aid Kit

In Rolling Case 2 (Foam lined)

- Test platform (the big square)
- 20kg load cell (on Test Platform)
- Spare 20kg load cell (if available)
- USB DAQ (NI cDAQ-9171 plus NI 9237 module)
- 50' USB cable for DAQ
- Short USB cable for DAQ
- Launch controller w key
- DMM w test leads
- Flashlights
- Safety goggles for team, proctors, and professor
- Roll of blue or masking tape
- 150' Ignition cable with alligator clip leads

Also bring

- Small Case (used to carry rocket motors & igniters)
- Four legs for platform – w handles & Velcro straps
- Safety cones (4) with bases (large black hexagons)
- Fire extinguisher
- 12V car battery (for igniting motor)
- Laptop computer in case w LabVIEW and needed VIs
- Extra laptop battery