

## Lab 5: 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)

- Laptop computer
- DAQ Card (in computer)
- BNC 2090
- Test platform
- 20kg load cell
- 50kg load cell
- Preamplifier for load cell with BNC-Tee and 5-way to BNC
- 10V load cell power supply
- Launch controller & launch relay box
- 12V battery for launch controller
- 1 set of keys (2 keys total)

In tool recess in case

- 2 Interlock igniter clips
- 2 PMR-29/38 motor retainers
- Box of extra 4-40 screws for motor retainer
- Extra 1/4-20 anchor plates
- Extra 1/4-20 screws
- Box of extra 8-32 set screws
- Box of extra M6x16 screws for load cell
- Allen wrench, 3/16"
- Allen wrench, 3/32"
- Allen wrench, 4mm
- Diagonal wire cutters
- Wire strippers

In Rolling Case 2 (Foam lined)

- Calibration weights
- 25 lb (1), 10 lb (2), 5 lb (2)
- Calibration rods (29 mm & 38 mm)
- Motor holders (7)
- DAQ cable (connects BNC 2090 to DAQ card)
- 125' – RS-232 cable for Launch Controller
- Ignition cable with alligator clip leads
- Flashlights
- Safety goggles for team, proctors, and professor
- Caution tape – if available
- Spare BNC-BNC cable w F-F BNC adaptor
- Spare grounding cable
  
- 150' – Load cell coaxial cable on spool
- 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)
- 2 Sand bags
- First Aid Kit