

## Test Procedures – Specs Verification

### Goal

To conduct tests in order to verify that design of apparatus and test procedures are in compliance with Customer Needs 9-13, 16

### EM 6

#### Apparatus

All components for all experimental set ups  
Stop watch

#### Procedure

For each experimental set up, conduct three time studies to calculate time to put away all parts for experimental setup. Walking distance must represent furthest possible location of apparatus setup from storage location.

### EM 7 / EM 13 / EM 16

#### Apparatus

Apparatus setup – for each experiment  
Stopwatch

#### Procedure

1. Work in pairs for experiment
2. One individual is to assemble each setup
3. Other individual is to measure total time to assemble the apparatus for each experimental setup using a stop watch
4. One individual disassembles each setup
5. Other individual is to measure total time to disassemble apparatus for each experimental setup

### EM 10

#### Apparatus

Stop watch  
Storage bins  
Any apparatus component

#### Procedure

1. Identify longest possible walking path from apparatus to location of parts storage
2. Measure time it takes for individual to walk the longest path.
3. Conduct five time studies, the individual performing walking activity to be of different height each time. Height range is to be between 5 ft to 6ft

