

- Debug Boost Converter Circuitry
  - Mount boost converter parts onto spare board, determine if output is similar to current board
  - Adjust resistances in feedback network with potentiometers to try to generate desired voltage output
  - If all else fails, seek further help
- Test motor driving
  - Determine motor oscillating period
  - Setup motor stress test for MEs
  - Verify functionality as used in code
- Test uController/code
  - Upload code to uController
  - Setup testing environment
  - Simulate cane-use
  - Verify results
- Test Battery
  - Connect battery to boost converter
  - Setup testing environment
  - Verify voltage output throughout battery life
- Test Battery Charge
  - Connect dead battery to buck converter
  - Setup testing environment
  - Monitor battery as it's charging
    - Check battery output voltage every half-hour
    - Monitor until voltage output reaches  $\sim 4$  V, or until charge current drops to  $0.02 C_5A \approx 52$  mA