

# Solar Home

Progress

Jan to May 2010

# Dead of Winter (Xmas break)

- Main Objective
  - To get twelve 300lb batteries to basement
- Spent most of the time with pencil, paper and calculator.
- Designed
  - Battery box
  - Hoist system
  - Special dollies and rigging



# Installed Hoist #1

Rated for 1200 lbs

Designed Cradle

- The rope and boards

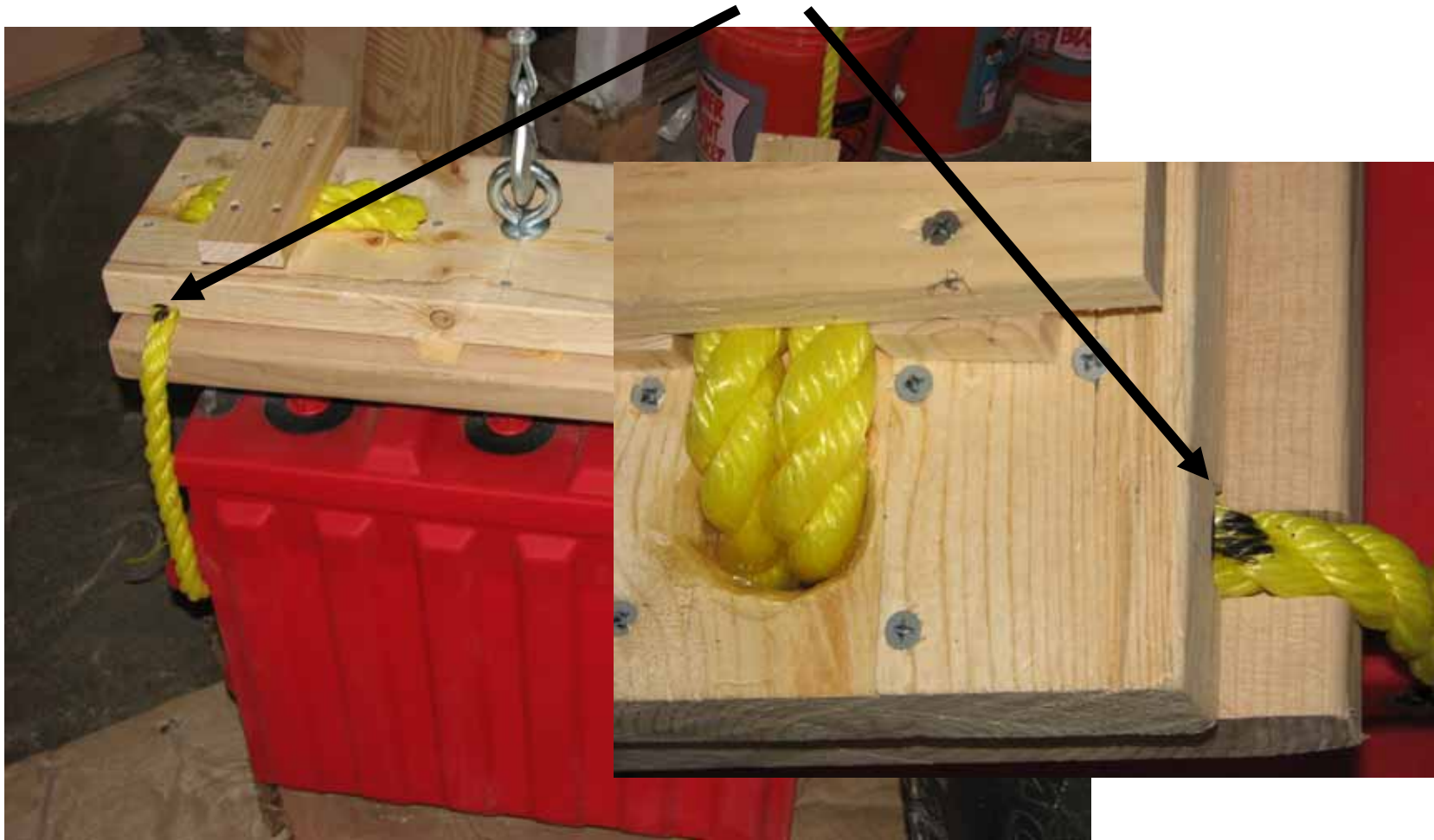
Static test

- Hoisted battery 1 inch above card board packing material for 24 hours
- Inspected cradle for stretching in rope or other signs in strain



# No signs of strain or stretch

- Ink marks didn't gap





# Hoist #2 Stairwell



# Hoist #3 Utility room



# Prepping the utility Room



- The purpose is to contain a leak (up to 1 inch depth a door)
- Floor drain tested to ensure its not plugged

From Dec to May Parts for battery box were being pre-fabricated





# May 8. battery box assembly



# May 9 Battery Move

## Step 1 Hoist



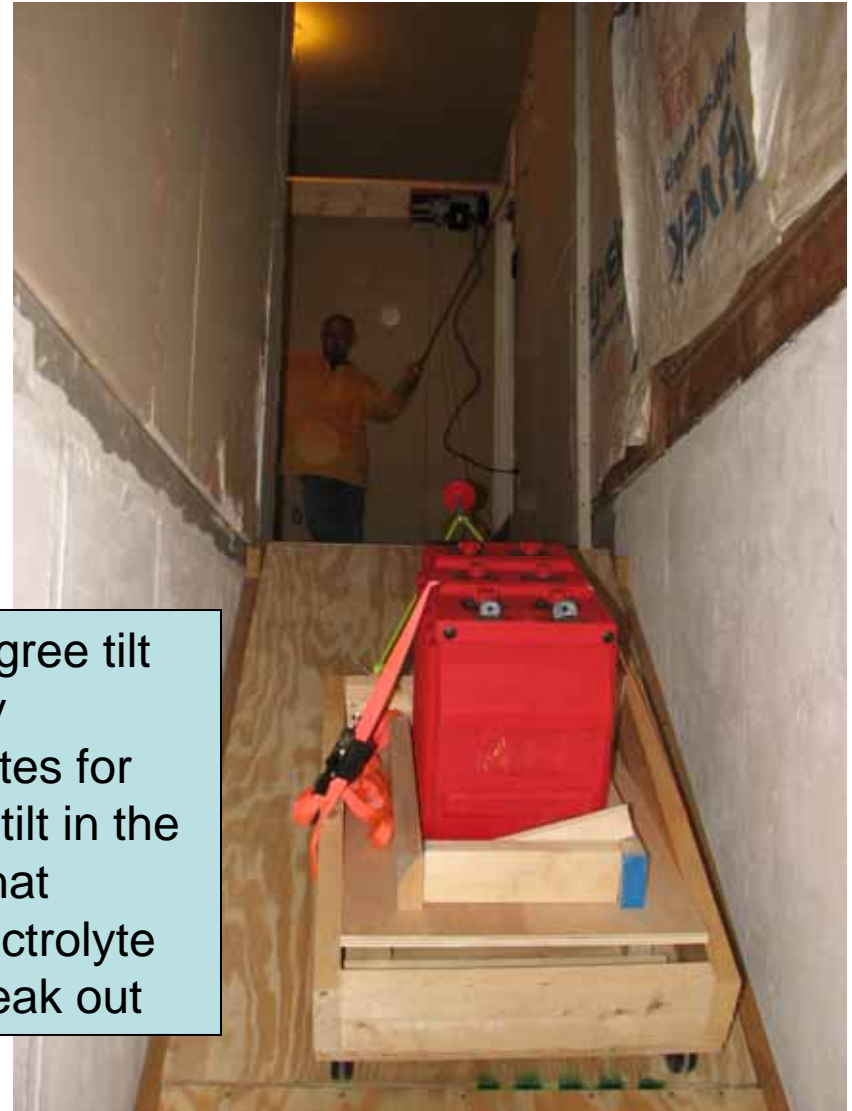
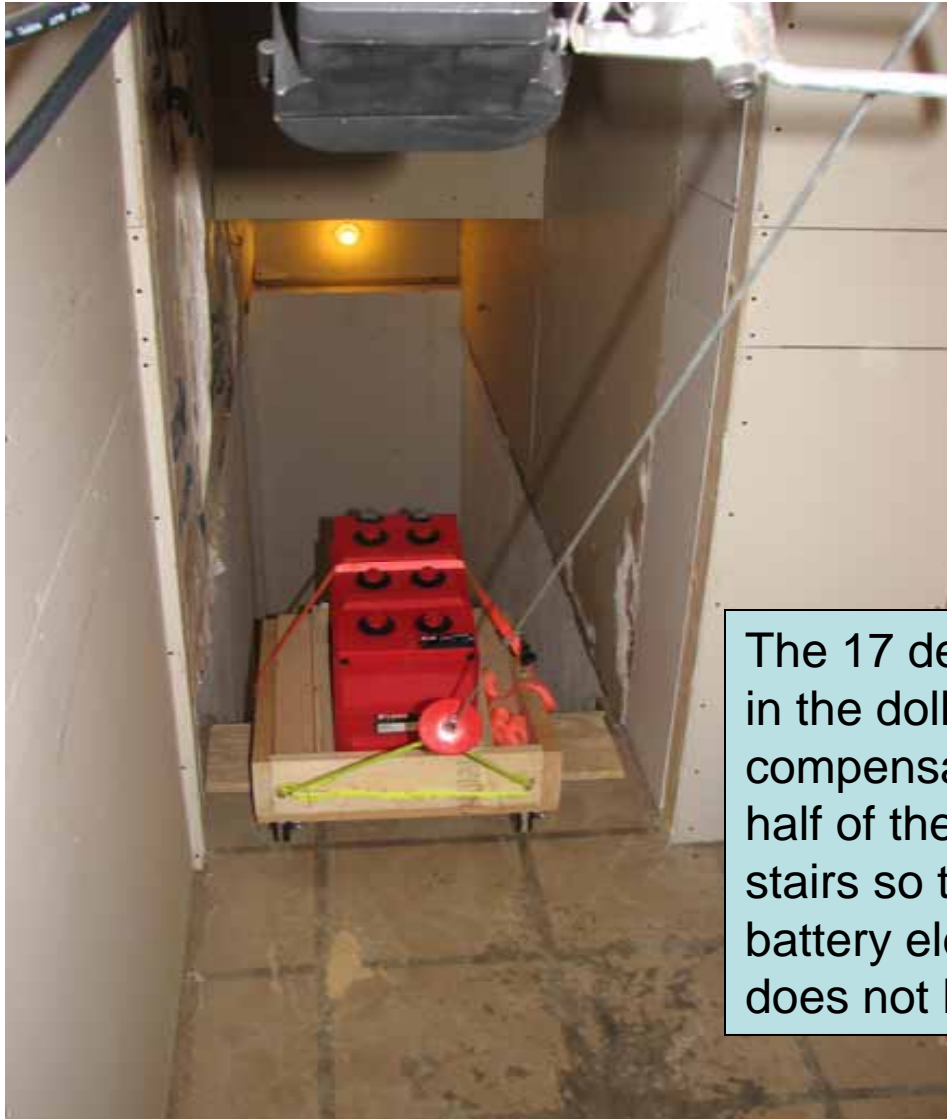
# Step 2: Lowered onto special dolly



The 17 degree angle is half the angle of the stairwell



# Step 3: Down the stair/ramp



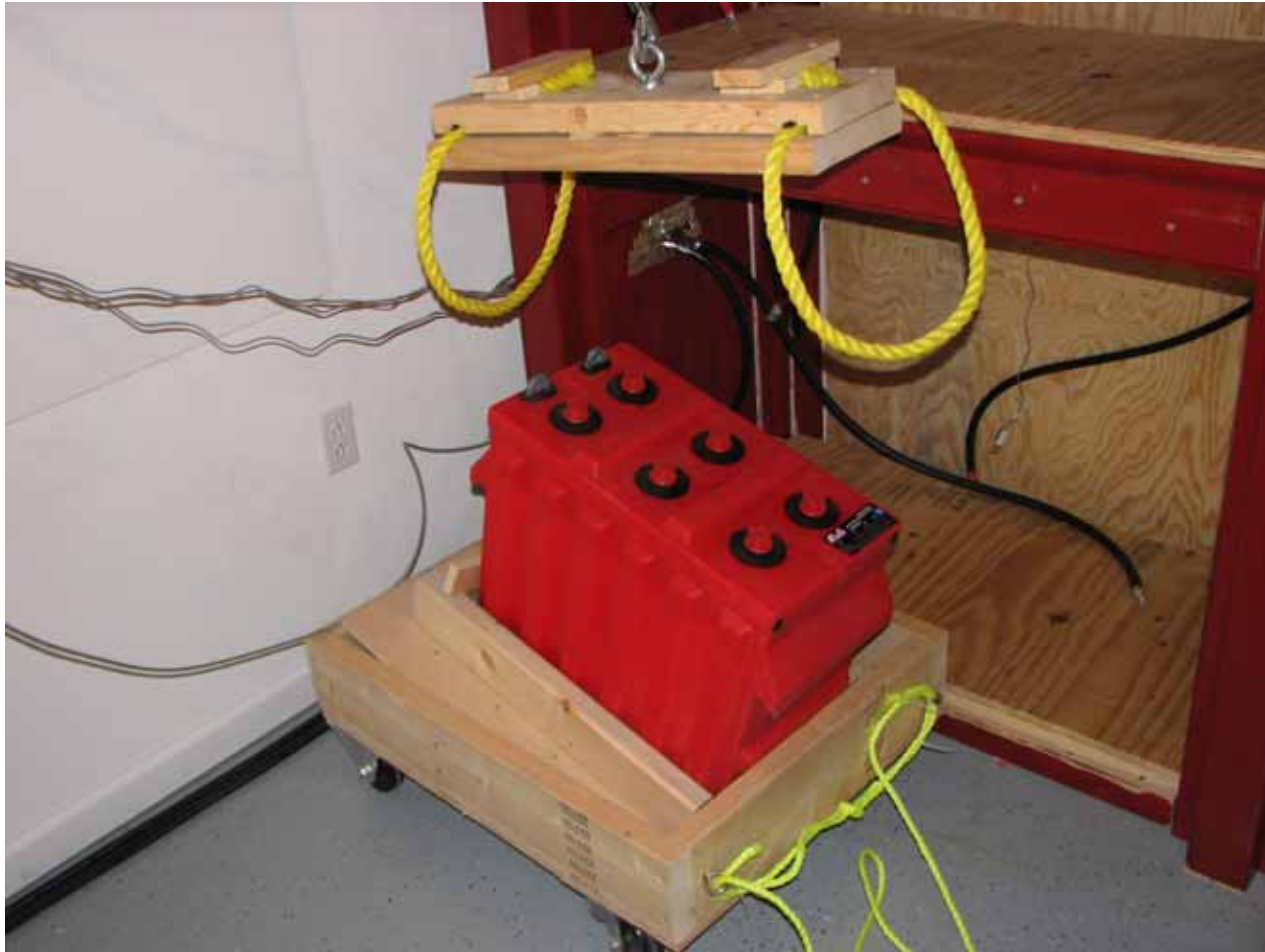
The 17 degree tilt in the dolly compensates for half of the tilt in the stairs so that battery electrolyte does not leak out



# Step 4: special transition ramp at base of stairs



# Step 5: Utility room hoist to remove from tilt dolly



# Step 6: Low profile dolly helps position batteries for lower shelf



# Step 7: Interlocking stand to place batteries in upper shelf







# Covers Installed



# Inverter Equipment Mounted.



# Many other things done



Rigged for Mow:  
1.5 hours to mow



Just some pictures taken since winter







My House











