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*           THORSENSOR.SET
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*
* Input file for THORTEST program
*
* Contains all geometric data and basic calibration and setup data
*
* Geometric data all in meters
*
* Calibration: Conversion factor from output voltage to engineering
value *
*           (in units/V)
*
*           = 1. if data already in engineering units
*
* Setup:     Initial value of potentiometer when appropriate.
*
*           Will be in voltages if no conversion is done to the data
*
*           Will be in engineering units if data already converted
*
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*****NOTE*****

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*   Sensor Setup file
*   Prepared:  October 19, 2009 by William Millis
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[HEAD]

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    Head C.G.
      Accel X
          Calibration = 9.80665; Setup = 0;
      Accel Y
          Calibration = 9.80665; Setup = 0;
      Accel Z
          Calibration = 9.80665; Setup = 0;
    Head Top
      LOCATION
          Z=-.0716; ! Location of Top accelerometer assembly. X, Y
assumed 0.
      Accel X
          Calibration = 9.80665; Setup = 0;
      Accel Y
          Calibration = 9.80665; Setup = 0;
    Head Side
      LOCATION
          Y=-.0483; ! Location of Side accelerometer assembly. X,
Z assumed 0.
      Accel X

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        Calibration = 9.80665; Setup = 0;
    Accel Z
        Calibration = 9.80665; Setup = 0;
    Head Rear
        LOCATION
            X=-.0508; ! Location of Rear accelerometer assembly. Y,
Z assumed 0.
        Accel Y
            Calibration = 9.80665; Setup = 0;
        Accel Z
            Calibration = 9.80665; Setup = 0;
[Neck]
    Neck Force
        Location
            X = 0.; Y = 0.; Z = .0254; !Location of mid-pt of load cell
        FX
            Calibration = 1; Setup = 0.;
        FY
            Calibration = 1; Setup = 0.;
        FZ
            Calibration = 1; Setup = 0.;
        MX
            Calibration = 1; Setup = 0.;
        MY
            Calibration = 1; Setup = 0.;
        MZ
            Calibration = 1; Setup = 0.;
    Rear Spring
        Top
            X = -.060; Y = 0.; Z = .0043;
        Bottom
            X = -.0315; Y = 0.; Z = .0472;
            Calibration = 1.; Setup = 0.;
    Front Spring
        Top
            X = .0381; Y = 0.; Z = -.0086;
        Bottom
            X = .0381; Y = 0.; Z = .0206;
            Calibration = 1.; Setup = 0.;
    Rotation
        Calibration = 1.; Setup = 0.;

[Crux]

    Upper Right
        Link Rear = 79.25; Link Front = 67.75;
        Offset Rear = 18.16; Offset Front = 9.91;

        Base
            Calibration = 1.0; Setup = -4.703
        Mid
            Calibration = 1.0; Setup = -90.83
        Elbow
            Calibration = 1.0; Setup = 41.34

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Upper Left
Link Rear = 79.25; Link Front = 67.75;
Offset Rear = 18.16; Offset Front = 9.91;

Base
Calibration = -1.0; Setup = -6.26
Mid
Calibration = 1.0; Setup = 88.87
Elbow
Calibration = 1.0; Setup = -87.2

Lower Right
Link Rear = 85.60; Link Front = 73.10;
Offset Rear = 18.16; Offset Front = 9.91;

Base
Calibration = -1.0; Setup = -7.11;
Mid
Calibration = 1.0; Setup = 74.83;
Elbow
Calibration = 1.0; Setup = -90.51;

Lower Left
Link Rear = 85.60; Link Front = 73.10;
Offset Rear = 18.16; Offset Front = 9.91;

Base
Calibration = 1.0; Setup = -8.595;
Mid
Calibration = 1.0; Setup = -77.18;
Elbow
Calibration = 1.0; Setup = 90.588;

[DGSP]

Right
stringpot! (X Axis)
Calibration = -1.0; Setup = 134.45;
theta ! (Z Axis)
Calibration = -1.0; Setup = 1.90;
psi ! (Y Axis)
Calibration = 1.0; Setup = -9.47;

Left
stringpot! (X Axis)
Calibration = -1.0; Setup = 132.86;
theta ! (Z Axis)
Calibration = -1.0; Setup = 0.08;
psi ! (Y Axis)
Calibration = -1.0; Setup = -11.23;