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*************************************************************************
***
*                        THORSENSOR.SET
*
*
*
*  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
*
*
*
*************************************************************************
***
*****NOTE*****
*    Sensor Setup file for THOR 0006 with THOR 0015 head and 0016 neck
sent to KARCO
*    This is a sample file as used by VRTC for a bi-polar voltage of  5V.
*    This file may need to be modified for your laboratory's data
acquisition
*    setup condition. In this example no channels were flipped during
data
*    acquisition. They were flipped in this file by use of -1.0 for
*    the calibration value to flip according to the THOR test manual.
*    Prepared:  October 20, 2009 by William Millis"
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[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 = 2.63
        Mid
            Calibration = 1.0; Setup = -88.7214
        Elbow
            Calibration = 1.0; Setup = 85.4486

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

       Base
           Calibration = -1.0; Setup = -9.11496
       Mid
           Calibration = 1.0; Setup = 95.5568
       Elbow
           Calibration = 1.0; Setup = -86.986


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

        Base
           Calibration = -1.0; Setup = 2.0640;
        Mid
           Calibration = 1.0; Setup = 70.639;
        Elbow
           Calibration = 1.0; Setup = 15.8954;
```

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

        Base
           Calibration = 1.0; Setup = 6.6280;
        Mid
           Calibration = 1.0; Setup = -87.7547;
        Elbow
           Calibration = 1.0; Setup = 46.70;
[DGSP]
   Right
        stringpot! (X Axis)
           Calibration = -1.0; Setup = 132.99;
        theta           ! (Z Axis)
           Calibration = -1.0; Setup = 2.70;
        psi             ! (Y Axis)
           Calibration = 1.0; Setup = -20.03;

   Left
        stringpot! (X Axis)
           Calibration = -1.0; Setup = 135.16;
        theta          ! (Z Axis)
           Calibration = -1.0; Setup = -3.48;
        psi      ! (Y Axis)
           Calibration = -1.0; Setup = -3.27;
```