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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
*
*
*
*****
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*****NOTE*****
*   Sensor Setup file Thor 0015
*   Prepared:  October 19, 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 = -4.703
    Mid
        Calibration = 1.0; Setup = -90.83
    Elbow
        Calibration = 1.0; Setup = 41.34
```

```
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;
```