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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
*   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

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```
    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;
```