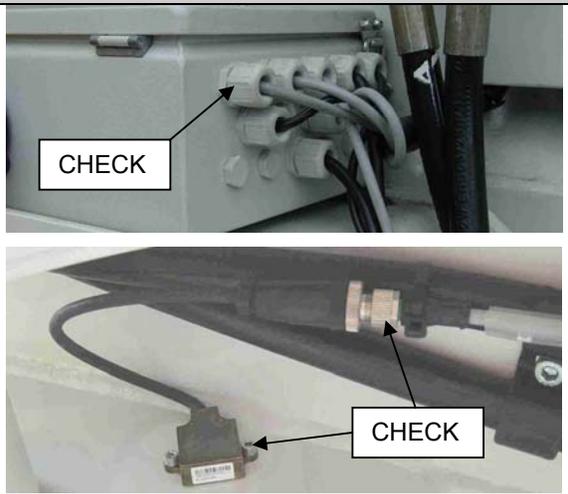


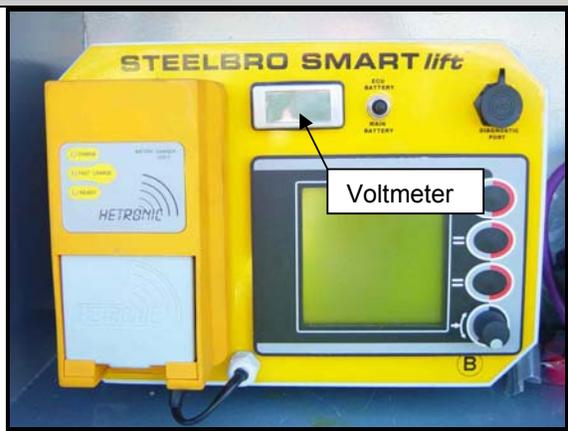


## TASK INSTRUCTIONS FOR SMARTlift PDI

P0024	V0109	Product Support	10 Jan 09
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The following procedure should be followed in addition to the normal pre-delivery Sidelifter check.

<b>VISUAL CHECK</b>	<b>TASK</b>
	<p>Firstly perform a visual check.</p> <ul style="list-style-type: none"><li>• Ensure that all junction box cable glands are tight,</li><li>• Check all 8 angle sensors are securely fixed</li><li>• Check all angle sensor plug/socket assemblies are tight.</li><li>• Check Pressure Sensor Plug is tight</li></ul>

<b>VOLTAGE CHECK</b>	<b>TASK</b>
 <p><b>Figure 1</b></p>	<p>Using the Voltmeter Toggle Switch, check the voltage of the Main Battery and ECU Battery.</p> <p>If the ECU Battery reads less than 11.5v run the alternator to charge the battery.</p>



3: STABILISER EXTENSION SENSORS CHECK	TASK
<pre> FRONT STABILISER EXTENSION SENSORS  EXTENSION      =  0 MM ENCODER COUNT= 0TEETH MAGNETIC       =  1 OPTICAL        =  0  FOOT DOWN SWITCH NORMALLY OPEN  =  0 NORMALLY CLOSED = 1  RETURN TO MENU           </pre>	<ul style="list-style-type: none"> <li>Put the Sidelifter into Stabiliser Mode</li> <li>Navigate MENU &gt;&gt; VIEW SENSOR VALUES &gt;&gt; FRONT STABILISER EXTENSION SENSORS</li> <li>With the Stabiliser fully retracted check the values are as per Figure 2</li> <li>Extend the Stabiliser and observe the EXTENSION count up. The OPTICAL sensor should alternate between 1 and 0 as the castellated plastic strip passes under the sensor. Note: EXTENSION = 0mm until the first tooth of the castellated plastic strip is seen.</li> </ul>
Figure 2	

4: STABILISER EXTENSION SENSORS CHECK	TASK
<pre> FRONT STABILISER EXTENSION SENSORS  EXTENSION      = 1935MM ENCODER COUNT=31TEETH MAGNETIC       =  1 OPTICAL        =  1  FOOT DOWN SWITCH NORMALLY OPEN  =  0 NORMALLY CLOSED = 1  RETURN TO MENU           </pre>	<ul style="list-style-type: none"> <li>With the Stabiliser fully extended check the values are as per Figure 3. <ul style="list-style-type: none"> <li>For a SB330 EXTENSION = 1935mm</li> <li>For a SB361/401 EXTENSION = 1983mm</li> </ul> </li> <li>Put the Stabiliser Foot on the ground and observe the change <ul style="list-style-type: none"> <li>NORMALLY OPEN =1</li> <li>NORMALLY CLOSED = 0</li> </ul> </li> <li>Repeat this for the Rear Crane.</li> </ul>
Figure 3	



### 5: SB401 ANGLE SENSORS CHECK

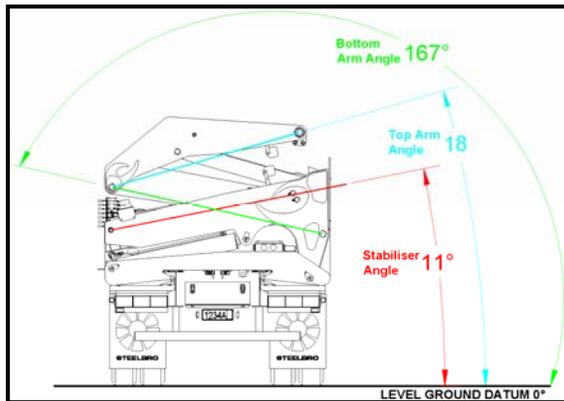


Figure 4

### TASK

- For an SB401
- Park the Sidelifter on level ground
- Ensure that the cranes and stabilisers are fully folded
- Navigate MENU >> VIEW SENSOR VALUES >> FRONT ANGLE SENSORS
- Check that the Angle Sensor Values are as per Figure 4. Tolerance  $\pm 1^\circ$ .
- Stabiliser Angle  $11^\circ$
- Bottom Arm Angle  $167^\circ$
- Top Arm Angle  $18^\circ$
- Elevation  $0^\circ$
- Camber  $0^\circ$
- Repeat for REAR ANGLE SENSORS

### 6: SB330 ANGLE SENSORS CHECK

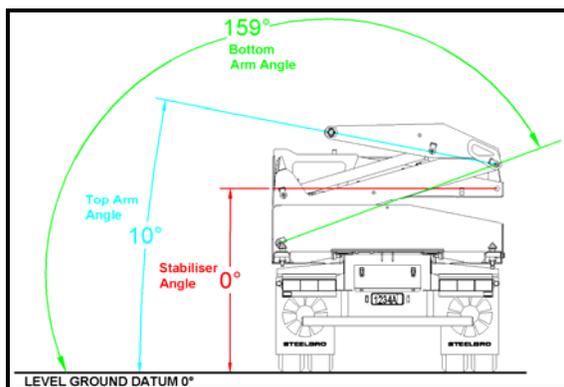


Figure 5

### TASK

- For an SB330
- Park the Sidelifter on level ground
- Ensure that the cranes and stabilisers are fully folded
- Navigate MENU >> VIEW SENSOR VALUES >> FRONT ANGLE SENSORS
- Check that the Angle Sensor Values are as per Figure 5. Tolerance  $\pm 1^\circ$ .
- Stabiliser Angle  $0^\circ$
- Bottom Arm Angle  $159^\circ$
- Top Arm Angle  $10^\circ$
- Elevation  $0^\circ$
- Camber  $0^\circ$
- Repeat for REAR ANGLE SENSORS



### 7: ANGLE SENSORS CHECK

### TASK

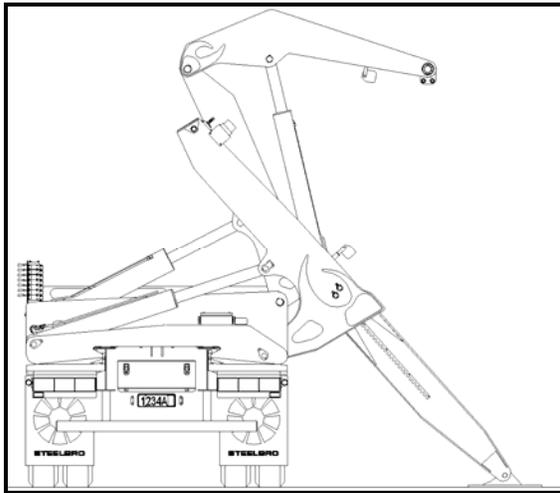


Figure 6

- Deploy the Stabiliser and observe the Stabiliser Angle Sensor count DOWN.
- Use the Stabiliser to tilt the trailer up and observe the CAMBER count UP.
- Move the Bottom Arm up and observe the Bottom Arm Angle Sensor count DOWN.
- Move the Top Arm up and observe the Top Arm Angle Sensor count UP.
- Fully extend the Top Arm and observe the PRESSURE sensor value increase
- Repeat for REAR ANGLE SENSORS

### 8: STABILISER ANGLE SENSOR CALIBRATION CHECK

### TASK

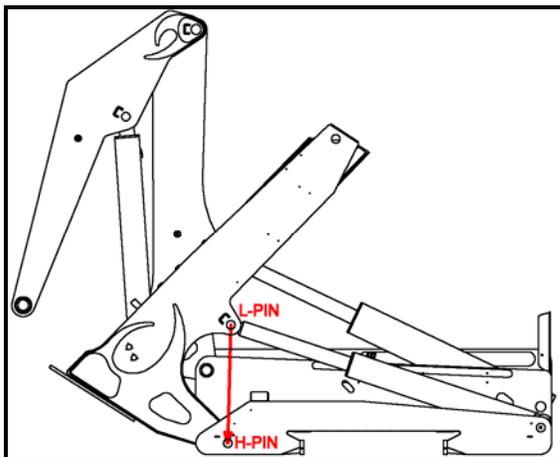


Figure 7

- Angle the Stabiliser and (using a plumb-bob) align the L-Pin vertical to H-Pin.
- Navigate MENU >> VIEW SENSOR VALUES >> FRONT ANGLE SENSORS
- For a SB330 Stabiliser Angle =  $38^{\circ} \pm 1^{\circ}$
- For a SB401 Stabiliser Angle =  $43^{\circ} \pm 1^{\circ}$
- Check if the Angle Sensor is loose if angles do not match the specification.
- Repeat for the Rear Stabiliser



**9: BOTTOM ARM ANGLE SENSOR CALIBRATION CHECK**

**TASK**

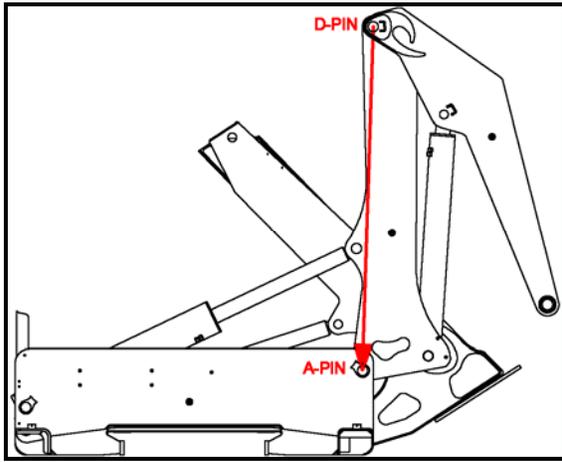


Figure 8

- Angle the Bottom Arm and align the D-Pin vertical to the A-Pin
  - Navigate MENU >> MANUFACTURERS AREA (xxxx) >> VIEW PIN DISTANCES >> FRONT PIN DISTANCES
  - The Horizontal Distance AD should equal 0mm  $\pm$ 15mm. Stopping the diesel engine will allow a more steady reading to be taken.
  - Repeat for the Rear Bottom Arm
- xxxx - contact STEELBRO

**10: TOP ARM ANGLE SENSOR CALIBRATION CHECK**

**TASK**

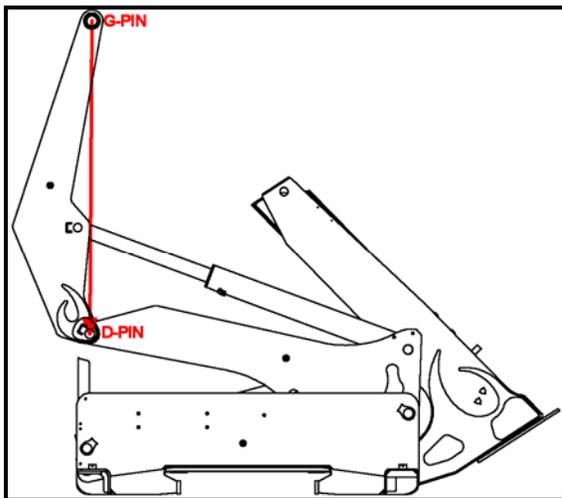


Figure 9

- Angle the Top Arm and align the G-Pin vertical to the D-Pin
  - Navigate MENU >> MANUFACTURERS AREA (xxxx) >> VIEW PIN DISTANCES >> FRONT PIN DISTANCES
  - The Horizontal Distance DG should equal 0mm  $\pm$ 15mm. Stopping the diesel engine will allow a more steady reading to be taken.
  - Repeat for the Rear Top Arm
- xxxx - contact STEELBRO