

Proximity Sensors Calibration

document version: 1.2

iLIFT[®]
Intelligent Suspension Lift Systems

No warranty is made or implied for products sold through Suspension Lift Technologies LLC against protection from damage, injury, or death. Under consideration for the purchase of these components, the buyer agrees to release, indemnify and hold Suspension Lift Technologies LLC harmless for, and assume all risk of any injury or damages that may arise from the installation or use of these components. Installation of these products must be performed by a competent and knowledgeable installer. Some items may only be used off road in some states. User assumes full risk.

Required:

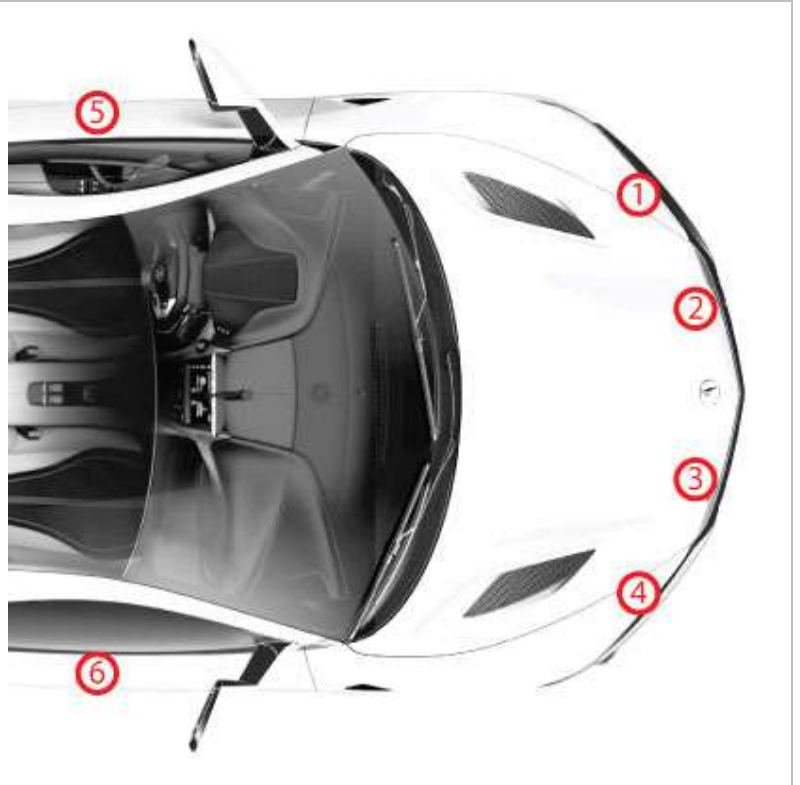
- Optional iLIFT Systems Automated Proximity Sensors.
- Laptop, tablet, or smart phone with WiFi.

View this link for a step-by-step instructional video:

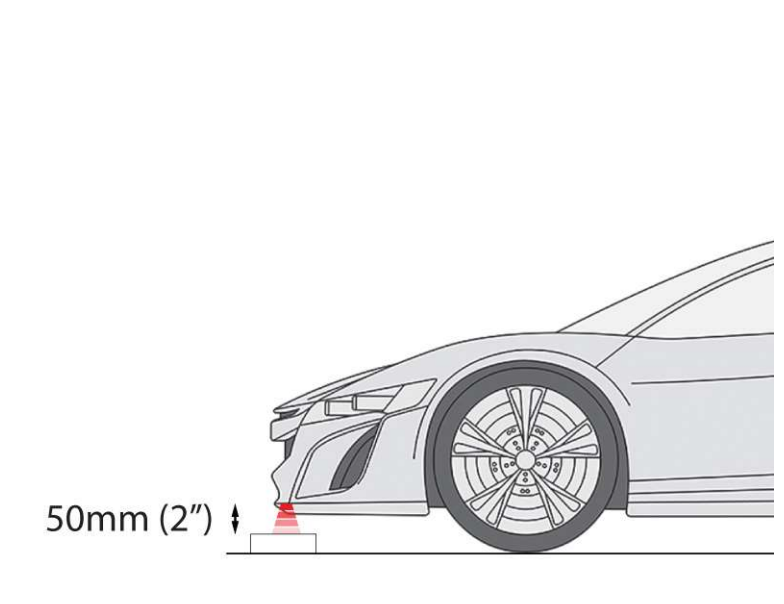
<https://tinyurl.com/y7qlp9hs>

Instructions:

- Identify the location of the six proximity sensors.
- The numbering sequence shown is the sequence recommended by iLIFT.



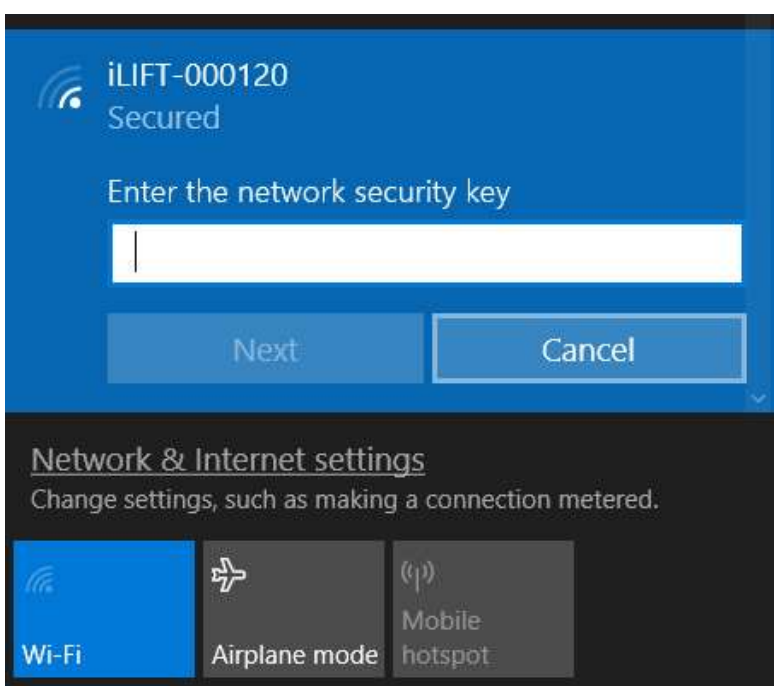
- The iLIFT Proximity sensor has a range of 15-200 mm (.6" – 7.9").
- The accuracy is about 5mm, depending on conditions.
- A target will be used to calibrate the sensors.
- The target should be approximately 50mm (2") from the bottom of the sensor.



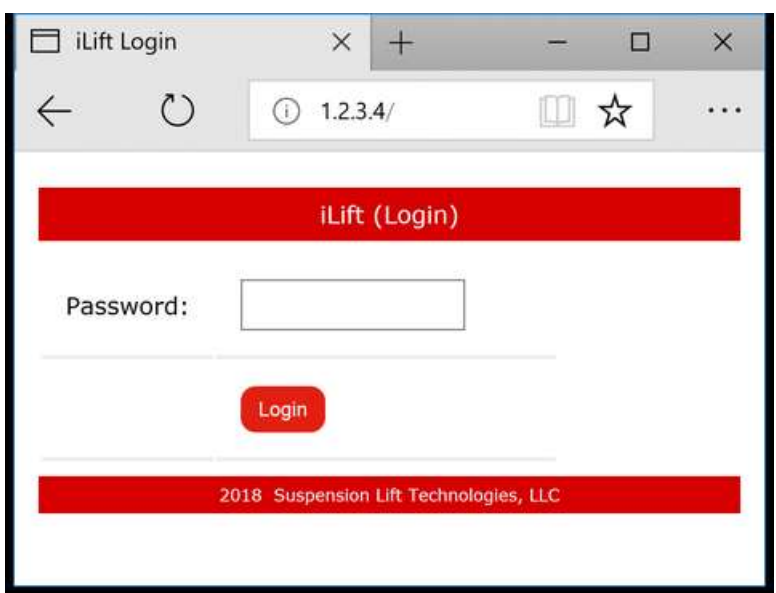
- The target can be a stack of boards, and should be at least 5" x 5" in width.
- The target represents the height at which the iLIFT System will trigger the lift of the vehicle.



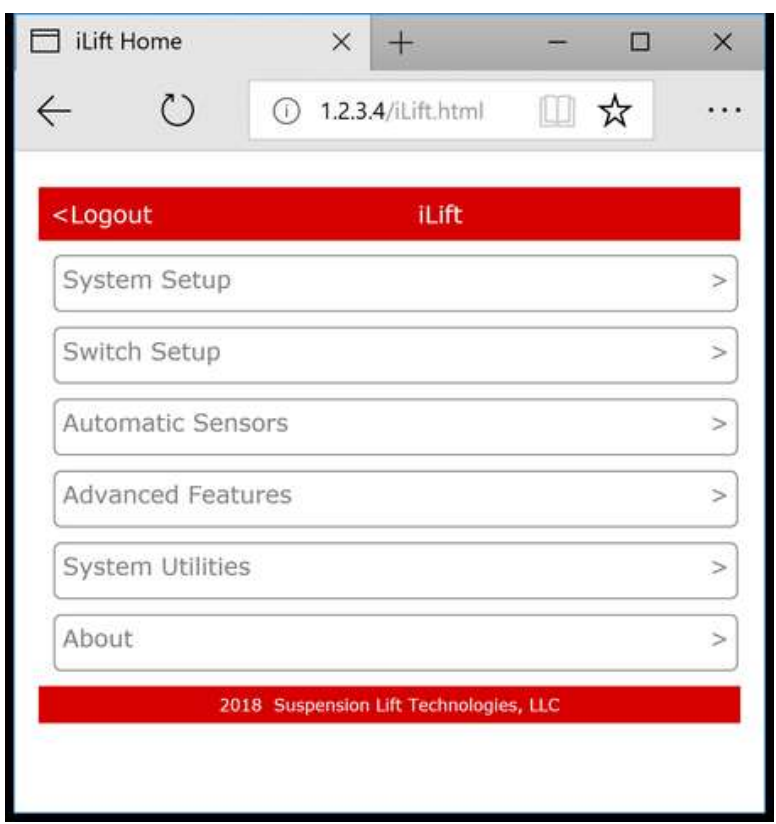
- Turn the engine on, and allow the air tanks to fill.
- Connect to the iLIFT ECU through WiFi.
- Once connected, enter the default WiFi password: ABCDEGH.
- You don't need to wait for a message that the ECU is connected.



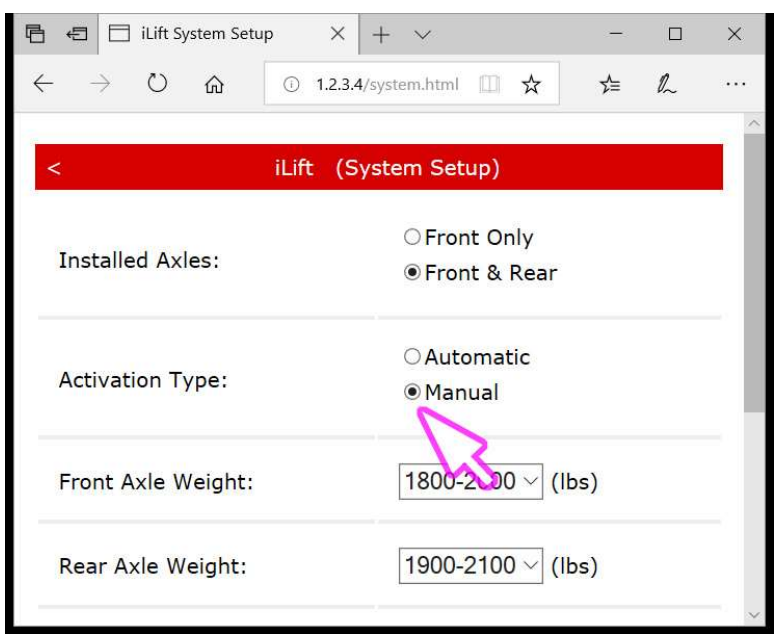
- Open a browser, Microsoft Edge recommended.
- Browse to 1.2.3.4 and click enter. If the page does not load immediately, click enter again – the ECU may not be connected yet.
- Enter the default password: admin.



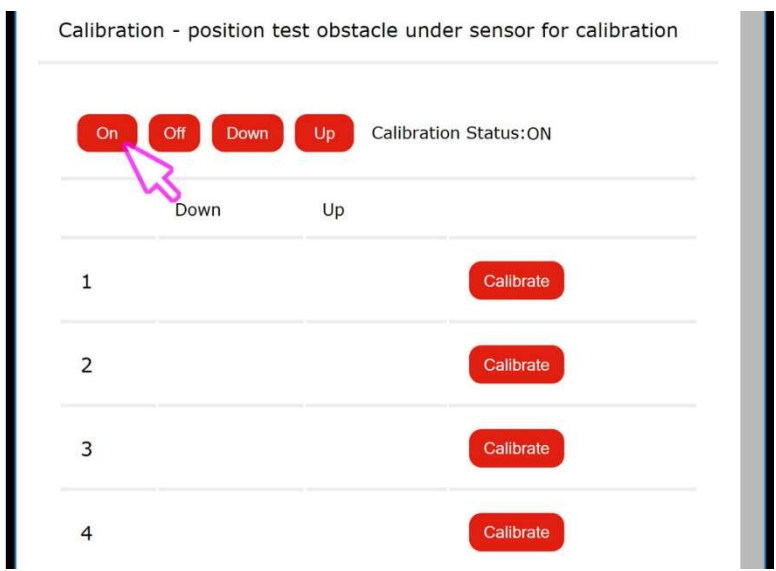
- Once the homepage loads, click *System Setup*.



- Change *Activation Type* to manual.
- Lower the vehicle if it is raised.



- Return to the homepage, and click Automatic Sensors.
- Scroll down and click the On button to turn on the calibration process.



- The stored calibration measurements will be displayed. These measurements are in millimeters.
- The Down column refers to the distance at which an obstacle will cause the vehicle to raise.

Save

Calibration - position test obstacle under sensor for calibration

On Off Down Up Calibration Status: ON DOWN

	Down	Up	
1	150	470	Calibrate
2	150	470	Calibrate
3	150	470	Calibrate
4	150	470	Calibrate
5	150	470	Calibrate
6	150	470	Calibrate

- The Up column refers to the distance that the vehicle will be stay raised until the obstacle clears.

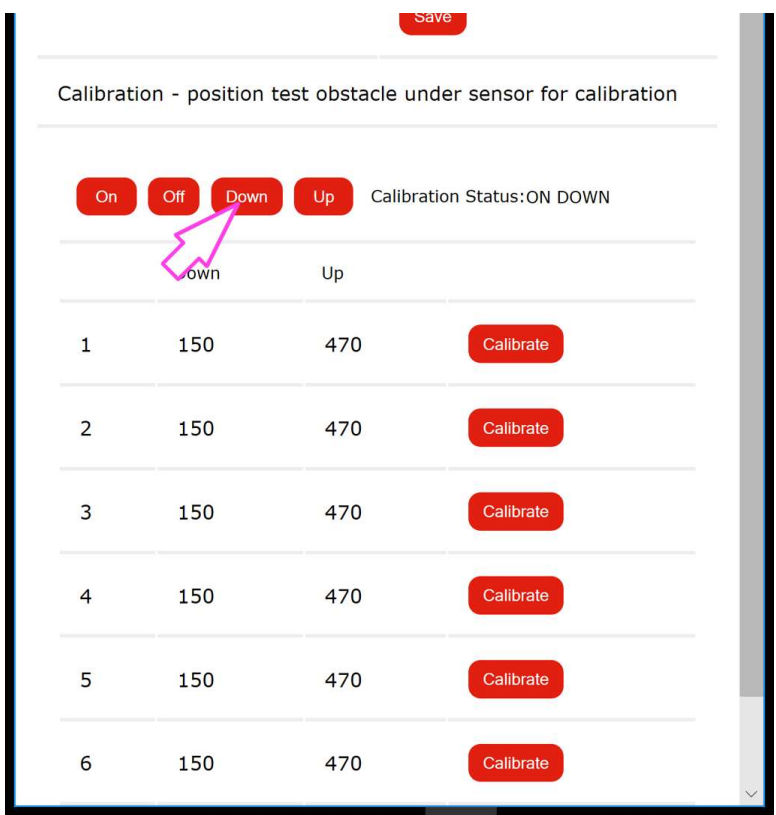
Save

Calibration - position test obstacle under sensor for calibration

On Off Down Up Calibration Status: ON DOWN

	Down	Up	
1	150	470	Calibrate
2	150	470	Calibrate
3	150	470	Calibrate
4	150	470	Calibrate
5	150	470	Calibrate
6	150	470	Calibrate

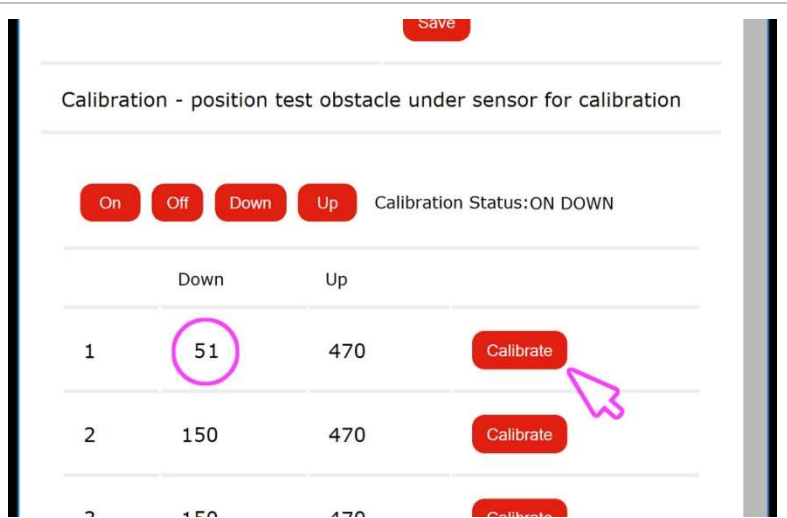
- Click the Down button to start the calibration process.



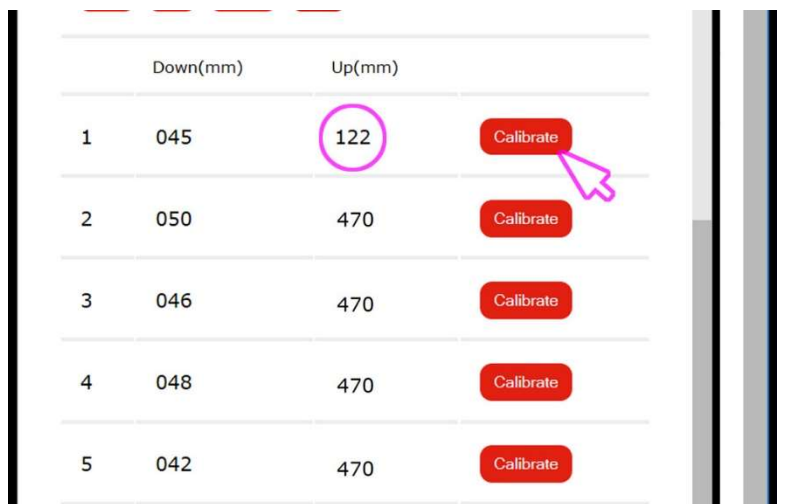
- Position the target under sensor 1.



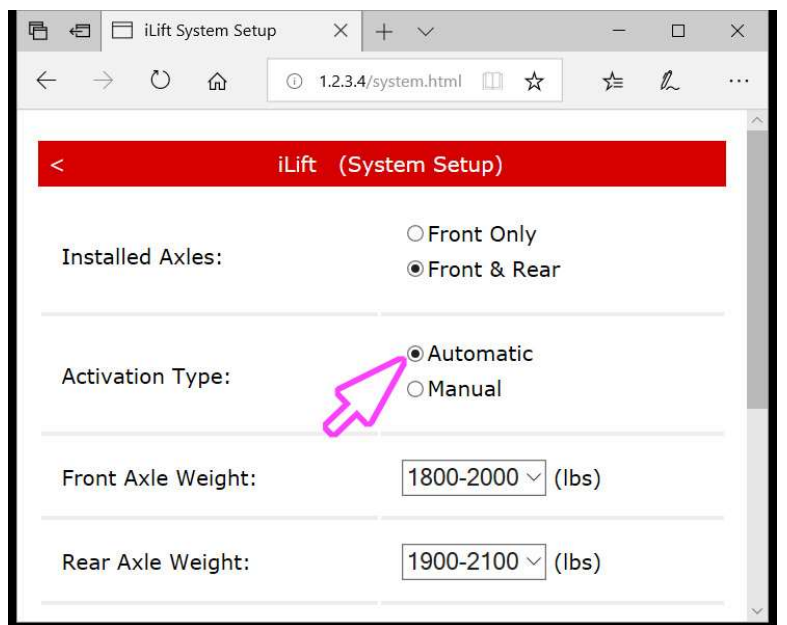
- Click the Calibrate button in the sensor 1 row. You will see the status and the measurement in the down column change.
- Repeat the process for the remaining sensors. Note that the sensors on the side of the vehicle may require a different target height if they are at a different height compared to the front of the car.
- If you receive a measurement that doesn't seem right – make sure you're calibrating the correct sensor, there are no wiring issues like the sensor locations being mixed up, and that there are no body components blocking the view of the sensor.



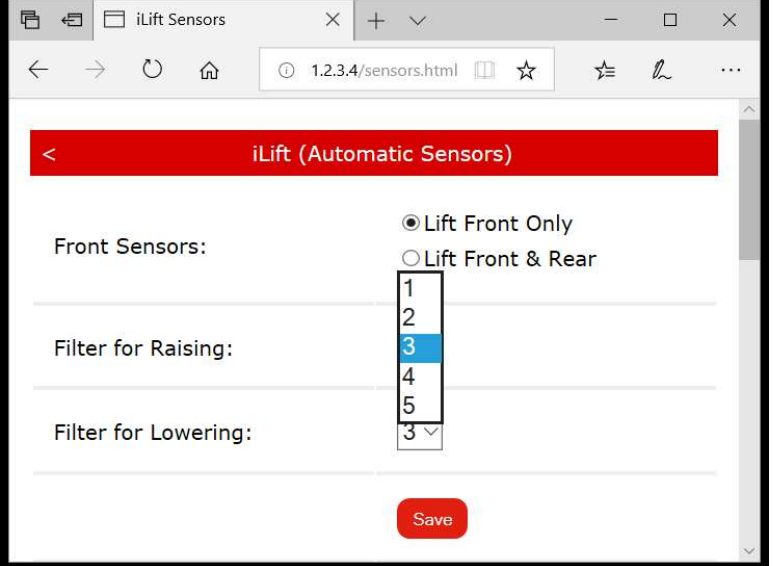
- Next, click the **Up** button. The status will change to Up. The vehicle will automatically raise.
- Reposition the target back under sensor 1.
- Click the Calibrate button in the sensor 1 row. The sensor 1 measurement in the up column and sensor 1 row will change.
- Repeat the same process for the remaining sensors.
- Click the Off button to turn off the calibration process.
- Lower the vehicle.



- Return to the home page, and click System Setup. Change Activation Type to automatic and click save.
- Now, the vehicle can be raised with the manual switch and the automatic sensors.



- Test drive the vehicle. If false activations occur, you may need to increase sensor filtering. 1 = most sensitive, 5 = least sensitive. 3 = default.
- You may need to repeat the calibration process, bringing the target closer to the sensor (about 25mm / 1"). The closer the target is during the calibration process, the less likely that false activations will occur.



The screenshot shows a web browser window titled "iLift Sensors" with the address bar displaying "1.2.3.4/sensors.html". The page content is titled "iLift (Automatic Sensors)" and features a red header bar with a back arrow. Below the header, there are two radio button options: "Lift Front Only" (selected) and "Lift Front & Rear". Underneath, there are three input fields: "Front Sensors:", "Filter for Raising:", and "Filter for Lowering:". A dropdown menu is open over the "Filter for Raising:" field, showing a list of numbers from 1 to 5, with the number 3 highlighted in blue. The "Filter for Lowering:" field has a small dropdown arrow next to the number 3. At the bottom of the form is a red "Save" button.