



401 and 601 ATLAS EDGE ALIGNMENT

CALIBRATION GUIDE



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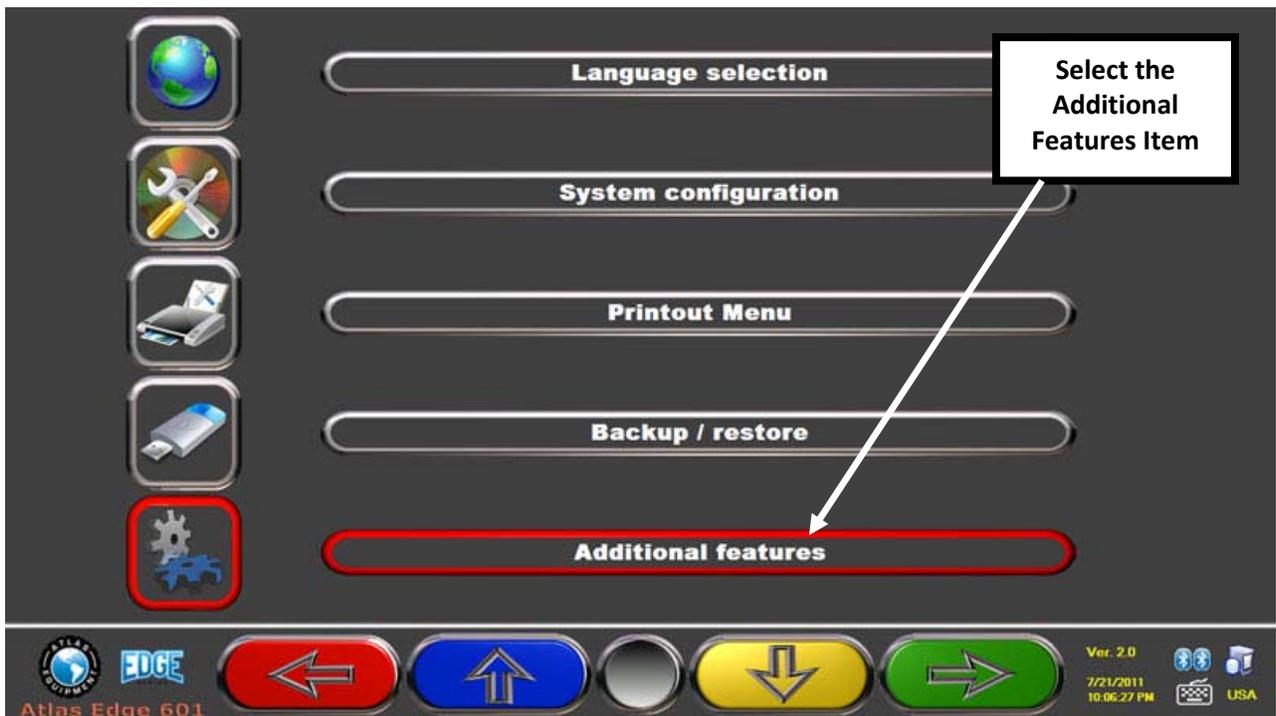


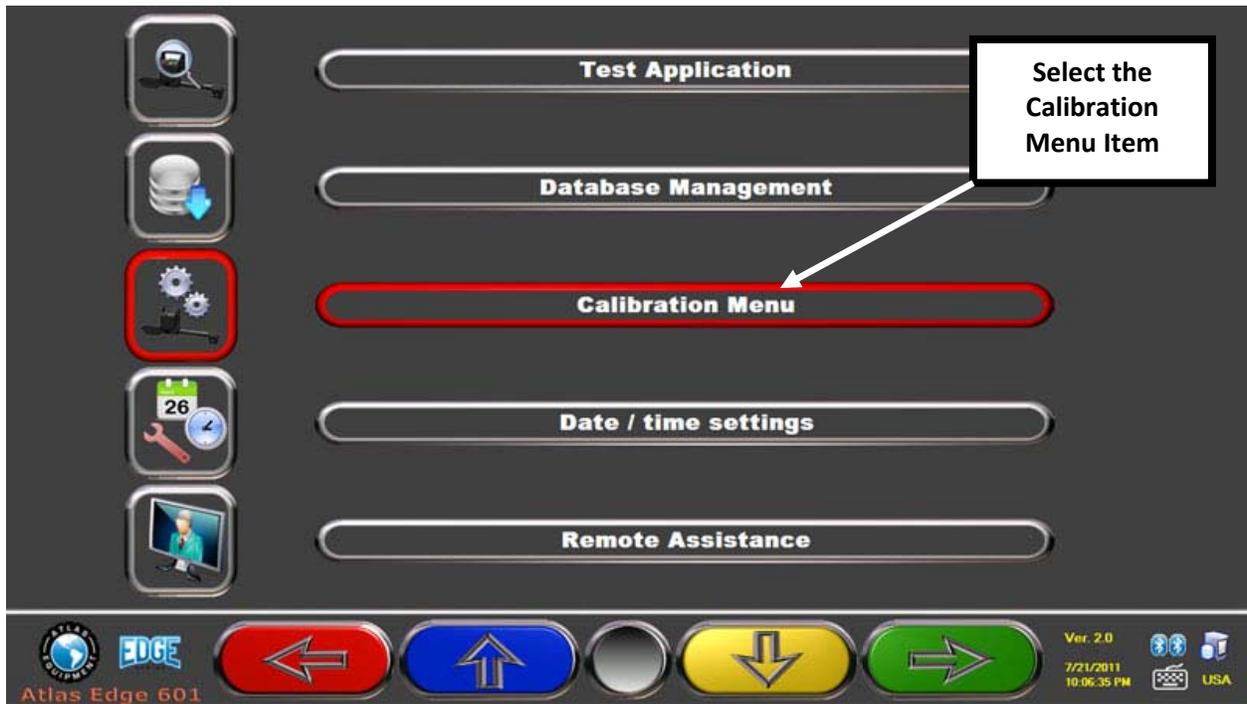
Before your calibration, Make sure you have all of the parts included in your Atlas Alignment Calibration Kit.

See (Figure A)

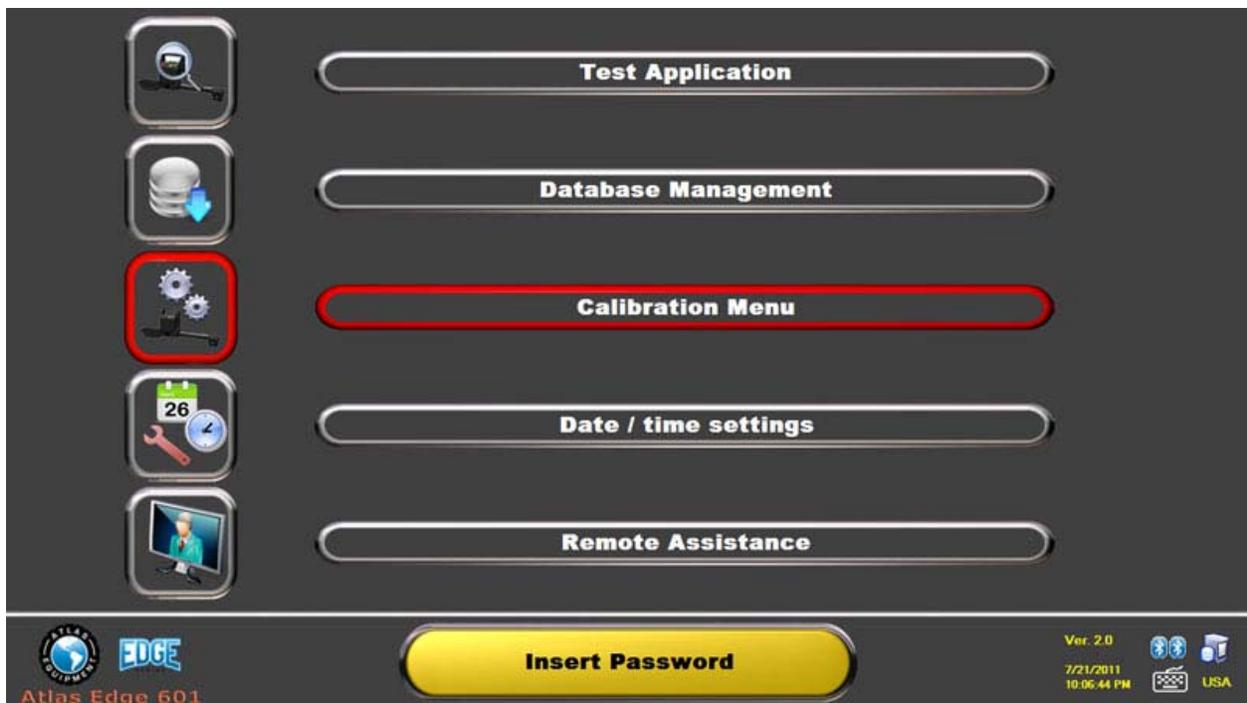


In your alignment machine software press the Blue Key to enter into the system settings menu.
Use the colored keys to navigate to the “Additional Features” menu item
and press the Green Key to select it.

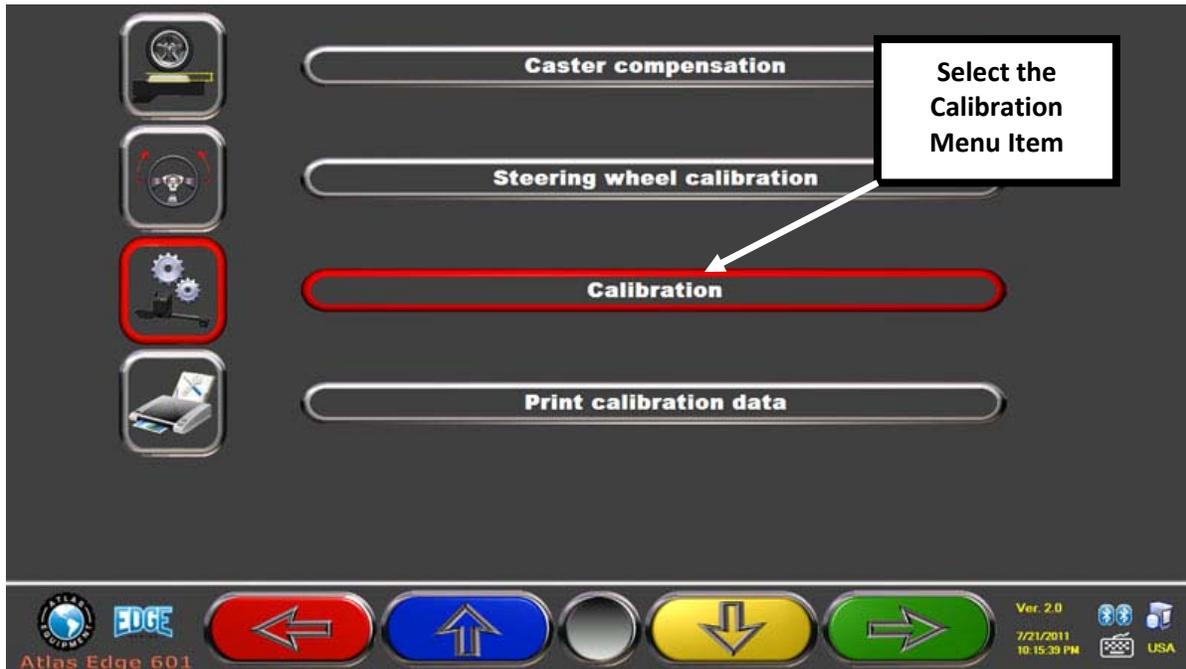




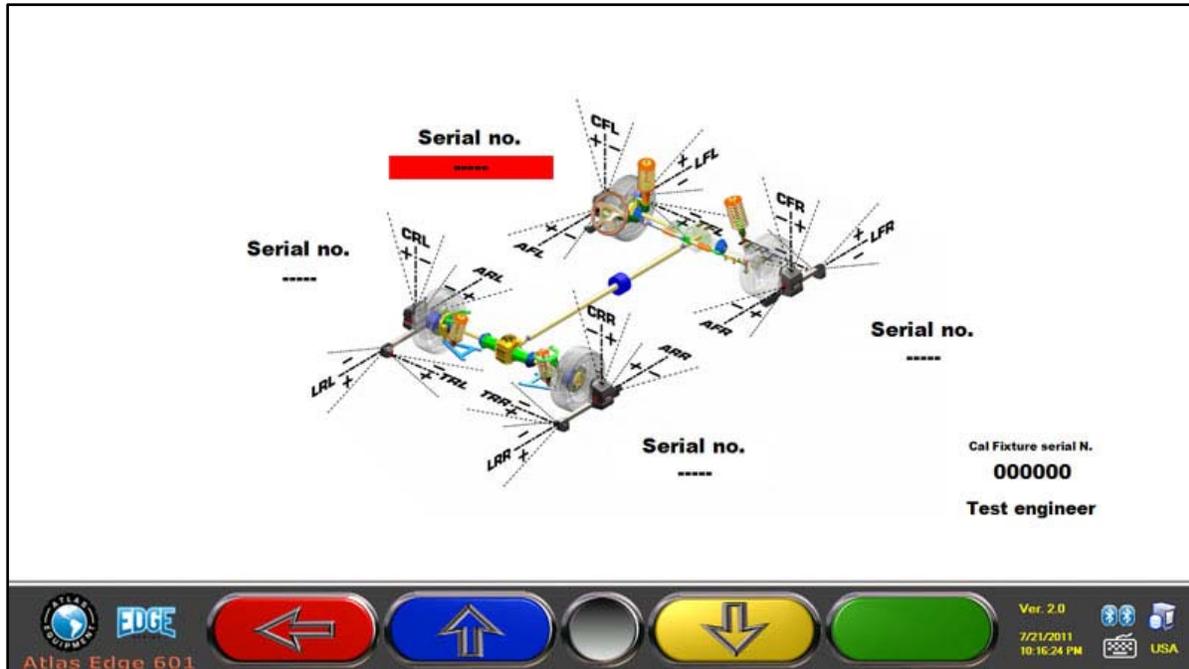
Use the colored keys to navigate to the Calibration Menu Item and select it.



The software will prompt you for a password. Enter the password: **F8, F7, F6, F8**



Use the colored keys to navigate to the Calibration Menu Item and select it.



Type in the serial number (located on the **LEFT** silver sticker on the back of the sensor head) of the Front Left Alignment Sensor and Press Tab 3 times to auto fill the other Sensor Serial Numbers. Continue to the next screen



Step 1:



Now you can begin the calibration process.



Before you proceed, ensure that your alignment calibration bar is level using the provided precision leveling tool. Check the steel block on the **knob adjuster side** of the calibration bar and ensure that they are level.

Make sure to level front to back and side to side on this block.



Adjust the knobs and screws at the base of the calibration bar to ensure the bar is level.

Figure A



(Figure A) To calibrate the Left Front and Left Rear Sensors configure the Sensors on the calibration bars as shown above. The Sensors are labeled. The **RIGHT** sticker on the back of the sensor head will be labeled according to Sensor position. **(F.R., R.R., F.L., R.L.)**



Leveling:



Tighten the sensors into the sockets using the provided fastening bolts.



Ensure the Front Sensor bar and the calibration bar is level.

The Calibration Bar must be leveled side to side and front to back and must be leveled from the knob side of the calibration bar.



Press "F5" on the keyboard or the middle Black Sensor Button to proceed and the FL and RL Sensors will begin calibration.

When the Calibration Process has completed for this step, Press the Green Button (F4) to proceed to the next step in the Alignment.

Step 2:





Raise the Rear of the Calibration Bar by 3 degrees using the Provided Steel Slug.



Press "F5" on the keyboard or the middle Black Sensor Button to proceed and to finish calibrating the FL and RL sensors.

When the Calibration Process has completed for this step, Press the Green Button (F4) to proceed to the next step in the Alignment.



Step 3:



(Figure A) To calibrate the Right Front and Right Rear Sensors configure the Sensors on the calibration bars as shown below. The Sensors are labeled. The **RIGHT** sticker on the back of the sensor head will be labeled according to Sensor position. (**F.R.**, **R.R.**, **F.L.**, **R.L.**)

Figure A





Leveling:



Tighten the sensors into the sockets using the provided fastening bolts.



Ensure the Front Sensor bar and the calibration bar is level.

The Calibration Bar must be leveled side to side and front to back and must be leveled from the knob side of the calibration bar.



Press "F5" on the keyboard or the middle Black Sensor Button to proceed and the FR and RR Sensors will begin calibration.

When the Calibration Process has completed for this step, Press the Green Button (F4) to proceed to the next step in the Alignment.

Step 4:





Raise the Rear of the Calibration Bar by 3 degrees using the Provided Steel Slug.



Press "F5" on the keyboard or the middle Black Sensor Button to proceed and finish calibrating the FR and RR sensors.

When the Calibration Process has completed for this step, Press the Green Button (F4) to proceed to the next step in the Alignment.



Step 5:



(Figure A) To calibrate the Right Front and Left Front Sensors configure the Sensors on the calibration bars as shown below. The Sensors are labeled. The **RIGHT** sticker on the back of the sensor head will be labeled according to Sensor position. (**F.R., R.R., F.L., R.L.**)

Figure A





Leveling:



Tighten the sensors into the sockets using the provided fastening bolts.



Ensure the Front Sensor bar and the calibration bar is level.

The Calibration Bar must be leveled side to side and front to back and must be leveled from the knob side of the calibration bar.



Press "F5" on the keyboard or the middle Black Sensor Button to proceed and the FL and FR Sensors will begin calibration.
When the Calibration Process has completed for this step, Press the Green Button (F4) to proceed to the next step in the Alignment.

Step 6:





Raise the Rear of the Calibration Bar by 3 degrees using the Provided Steel Slug.



Press "F5" on the keyboard or the middle Black Sensor Button to proceed and finish calibrating the FL and FR sensors.

When the Calibration Process has completed for this step, Press the Green Button (F4) to proceed to the next step in the Alignment.



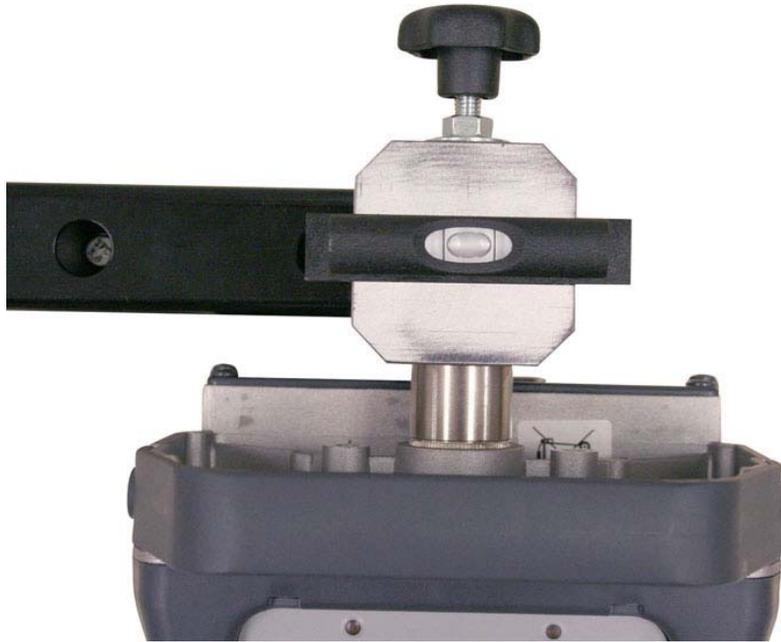
Step 7:



(Figure A) To calibrate the Right Rear and Left Rear Sensors configure the Sensors on the calibration bars as shown below. The Sensors are labeled. The **RIGHT** sticker on the back of the sensor head will be labeled according to Sensor position. **(F.R., R.R., F.L., R.L.)**

Figure A





Tighten the sensors into the sockets using the provided fastening bolts, and ensure the Front Sensor bar and the calibration bar head is level.



Position the Front Sensors somewhere nearby. The Rear Sensor Cameras must have line of sight with the Front Sensor Cameras in order to establish a signal.



Press "F5" on the keyboard or the middle Black Sensor Button to proceed and the RR and RL Sensors will calibrate.



Your calibration is now complete.



ARCTOSYS v.2.001.0 21/07/2011 22:14

Print calibration data

Full Error used is: 0.00000

Angle	Degree before calibration			Value during calibration			Degree after calibration		
	Offset	Min	Gain	Min	Offset	CROSS	Min	Gain	Min
AFL	0.02	0.04	223	0.02	1810	1790	0.02	0.04	223
AFR	0.00	0.04	225	0.00	1840	1790	0.00	0.04	225
ARL	-0.03	0.04	225	0.00	1786	1790	0.00	0.04	225
ARR	0.03	0.04	225	0.00	1842	1790	0.00	0.04	225
CFR	-0.02	0.04		0.05	0.20	0.00	0.00	0.04	
CFR	-0.01	0.04		0.05	0.20	0.00	0.00	0.04	
CRF	-0.11	0.04		0.02	0.20	0.00	0.00	0.04	
CRF	-0.01	0.04		-0.03	0.20	0.00	0.00	0.04	
LFL	-2.03	0.04		0.04	0.20	0.00	-0.01	0.04	
LFR	0.03	0.04		0.08	0.20	0.00	0.00	0.04	
LRL	-2.04	0.04			0.20	0.00	-0.01	0.04	
LRR	-1.12	0.04			0.20	0.00	0.00	0.04	
TRL	0.01	0.04	218	0.01	1831	1790	0.01	0.04	218
TRR	0.00	0.04	218	0.01	1827	1790	0.00	0.04	218
YRL		0.04	225		1790			0.04	225
YRR		0.04	225		1790			0.04	225

A calibration pass is deemed by the ARCTOSYS calibration figures all showing in black ink

Test engineer
DUNNS

Ver. 2.0

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When the Calibration Process has completed for this step, Press the Green Button (F4) to proceed to the next step in the Alignment to see a detailed report of your calibration. You can also print out this report by pressing the yellow button.