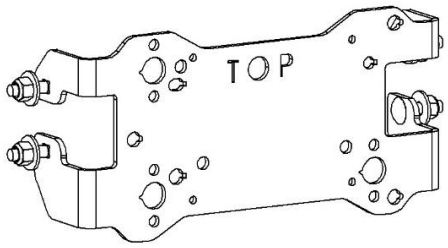
Thank you for choosing HERD!

For assistance call
1-888-543-4373

www.HERD.com

Product	Application
Radar Sensor Bracket	HERD AeroPLUS Truck Guards



Application:	Radar Sensor:
Meritor-Wabco OnGuard	ARS 3A
Bendix Wingman Advanced & Fusion	FLR20
Volvo Active Driver Assist	FLR20
Detroit Assurance 4.0	ARS 408

Important

- Herd Bumpers are vehicle "Make & Model" specific. Use of a bumper on a vehicle other than the model it was designed for will constitute improper use of the product and will void the Herd product warranty.
- Unless otherwise specified, Grade 8 or Class 10.9 hardware is to be used. For the purposes of these instructions, OE hardware means the truck's original factory hardware.
- For further detail of warranty coverage and warranty repair information visit www.HERD.com.

General Safety

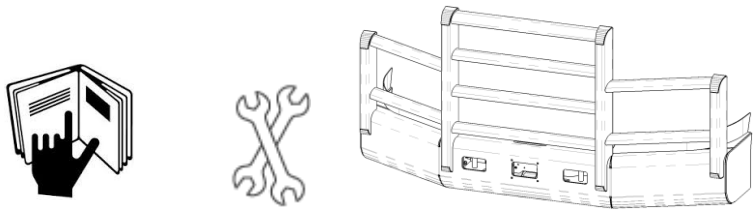
- Take time to fully read the instructions before installing the Herd bumper.
- At all times exercise safe work shop practices, wear steel toe boots and safety glasses during installation.
- Parts and components of the Herd bumper can be heavy, handle with care to avoid injuries.
- Respect power tools and use them as advertised.

HERD North America Inc.
2168 Springfield Road
Box 28, Group 525, RR5
Winnipeg, MB. Canada R2C 2Z2

1. Remove radar sensor from OEM bracket and retain OEM hardware.
   Note: See Appendix A for Bendix FLR20 sensor removal.

2. Install truck guard as per HERD Installation Guide applicable to that model of Truck Guard.

   If Installation Guide is not available, contact 1-888-543-4373 or visit HerdDealers.com to download instructions.



3. Follow Step 4 to install radar sensor bracket (Item 1) onto Herd bracket.

Item No	Part No	Description	Qty
1	100045	HERD RADAR SENSOR BRACKET	1
2	500080	BOLT-CARRIAGE 1/4-20X1 NC 18-8SS	4
3	500208	WASHER-FLAT 1/4 SAE GR8 YZP	4
4	500170	NUT-NYLOCK 1/4-20 NC 18-8SS	4

Table 1 - Radar Sensor Bracket Parts (Supplied with HERD Bumper)

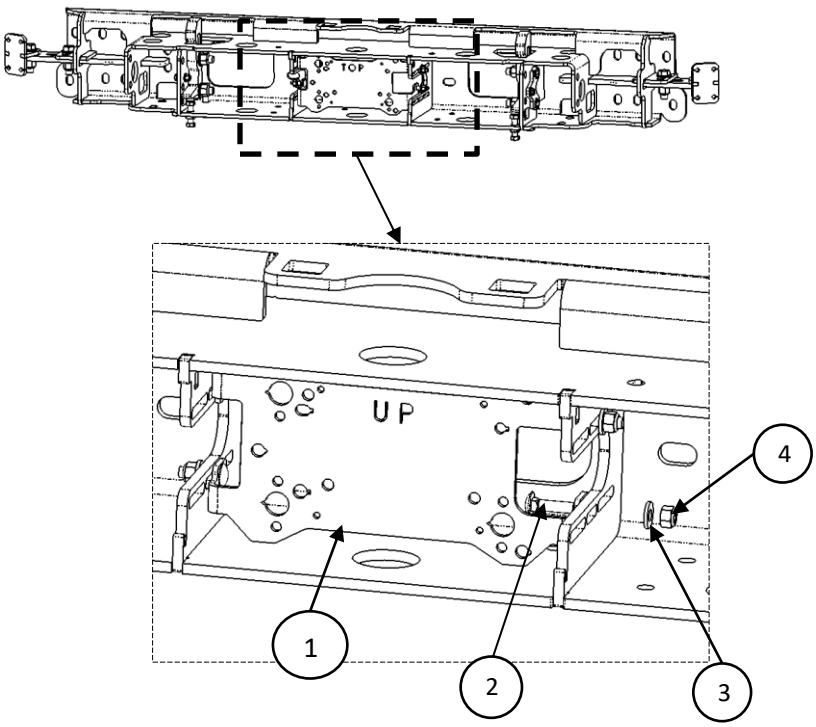


Figure 1 - Radar Sensor Bracket Removal

4. To install the radar sensor unit onto the HERD radar sensor bracket (Item 1) carefully read the following instructions.

   The HERD bracket is made to accept the radar sensors as shown on table 1.

   Contact HERD if your radar sensor is not listed.

Application:	Radar Sensor:	Page
Meritor-Wabco OnGuard, OnGuard Active	ARS 3A	3
Bendix Wingman Fusion, Volvo Active Driver Assist	FLR20	4
Bendix Wingman Advanced	FLR20	4
Detroit Assurance 4.0	ARS 408	5

Table 2 - Sensors and Applications

5.

Application:
- **Meritor Wabco OnGuard**
- **OnGuard Active**

Sensor: ARS 3A

1. Mount ARS3A sensor unit and cover to sensor bracket with the OEM hardware. Use mounting hole pattern as shown in Figure.

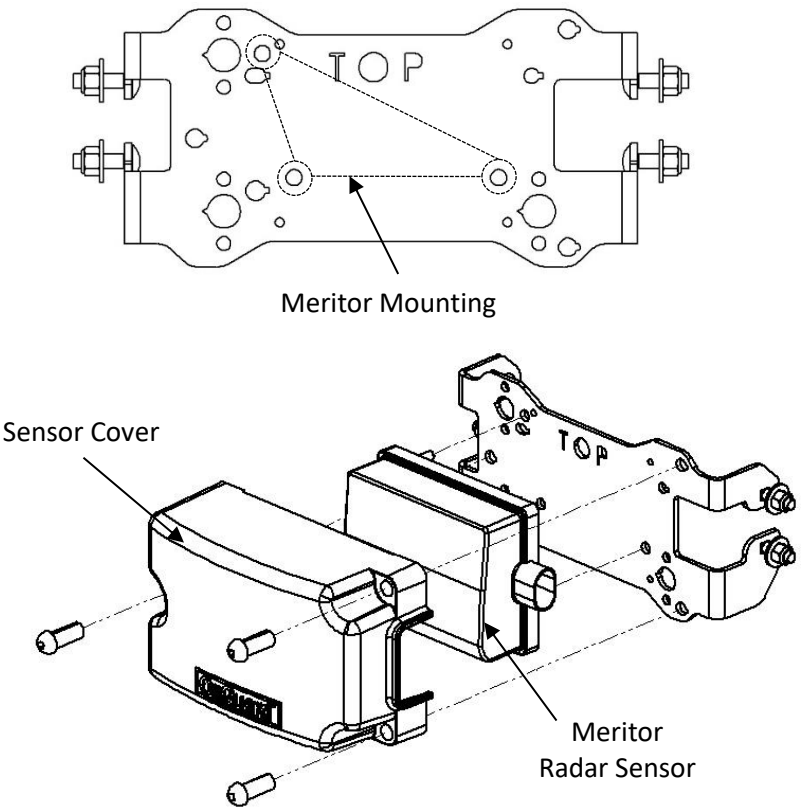


Figure 2 - Meritor Radar Sensor Installation

2. Mount radar sensor bracket to HERD bumper bracket. Use rear holes as shown.

Note: make sure the front of the sensor cover is about 10mm behind the front of the bumper's bracket.

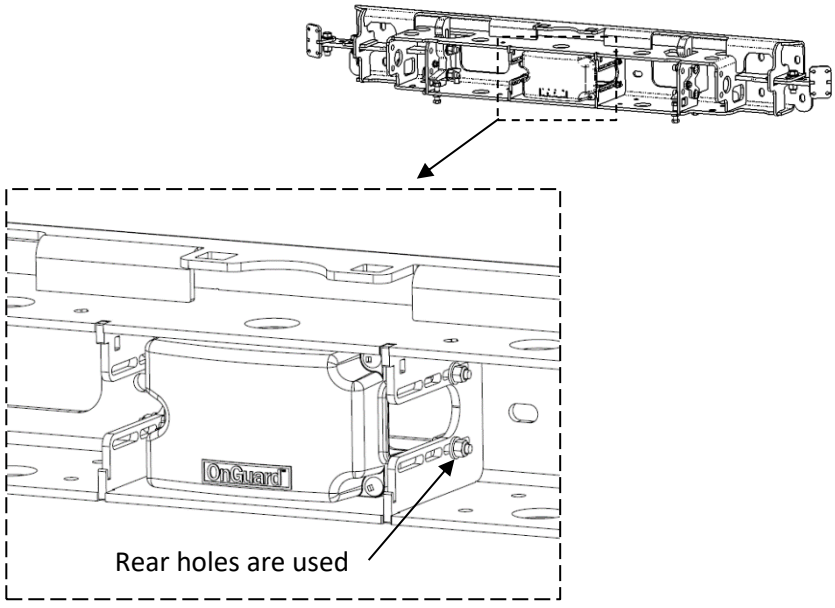


Figure 3 - Meritor Radar Sensor Installation

3. Plug in the radar harness, making sure harness is properly secured.

4. Align the Meritor-Wabco radar sensor. Refer to Meritor-Wabco Maintenance manual MM-1306 or OEM service representative for instructions.

Application:

- **Bendix Wingman Fusion**
- **Volvo Active Driver Assist (with camera)**
- **Bendix Wingman Advanced**

Sensor: FLR20

1. **STOP.** System uses windshield mounted camera. **See Appendix B for instructions on parameter change.**
2. If the system dose not use windshield mounted camera, no parameter change is required.
3. Proceed to next step once parameter change is made.

If further assistance is needed, contact:

Bendix Service: 1-800-AIR-BRAKE (1-800-247-2725)

4. Mount Bendix sensor unit with the OEM hardware. Use mounting hole pattern as shown in Figure 4.

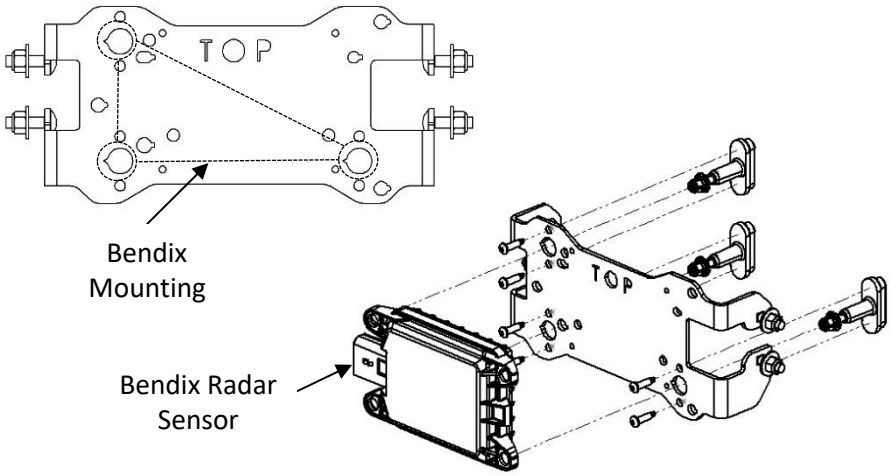


Figure 4 - Bendix Radar Sensor Installation

5. Mount the radar sensor bracket to HERD bumper bracket, use middle holes as shown in Figure 5.

Note: make sure the front of the sensor cover is about 10mm behind the front of the bumper's bracket.

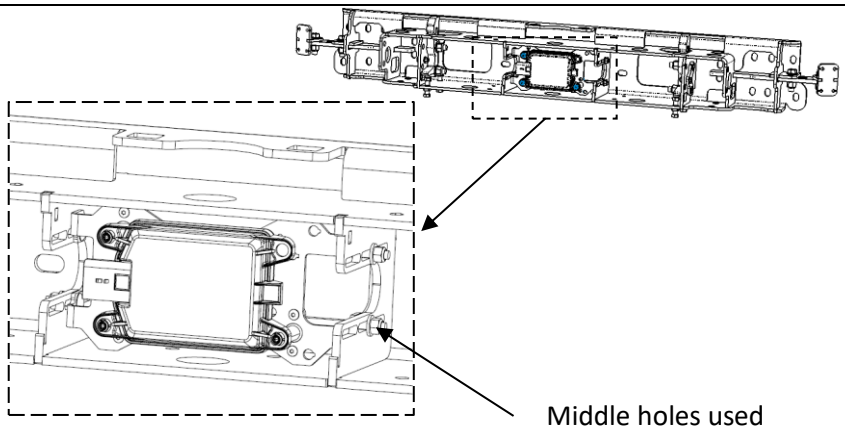


Figure 5 – Bendix Radar Sensor Installation

6. Plug in the radar harness, making sure harness is properly secured.
7. Align the Bendix radar sensor. Refer to Bendix service data manual SD-61-4963 or contact Bendix service rep.

Application:

- **Detroit Assurance 4.0**

Sensor: ARS 408

1. Mount Detroit Assurance sensor to HERD sensor bracket using OEM hardware. Use mounting hole pattern as shown in Figure 6.

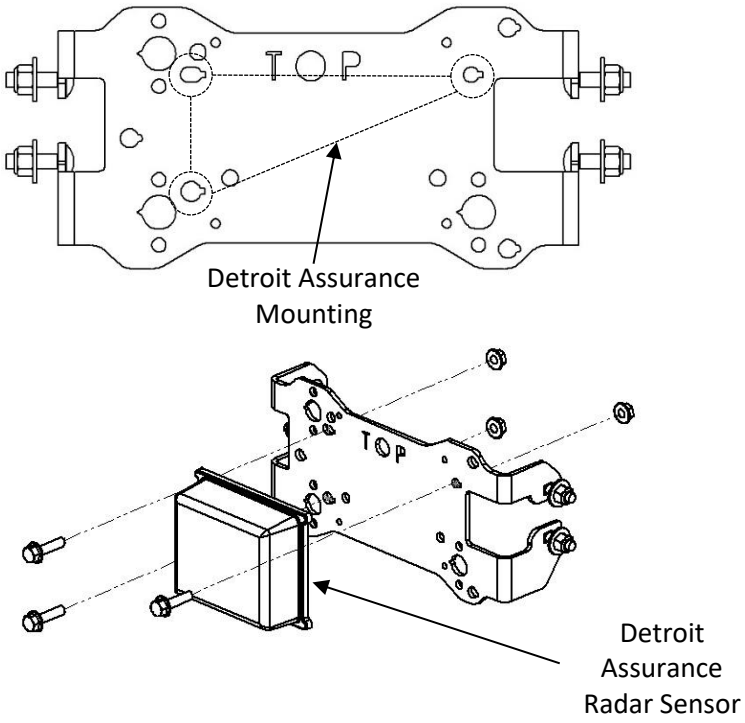


Figure 6 - Detroit Assurance Radar Sensor Installation

2. Mount the radar sensor bracket to HERD bumper bracket, use middle holes as shown in Figure 7.

Note: make sure the front of the sensor cover is about 10mm behind the front of the bumper's bracket.

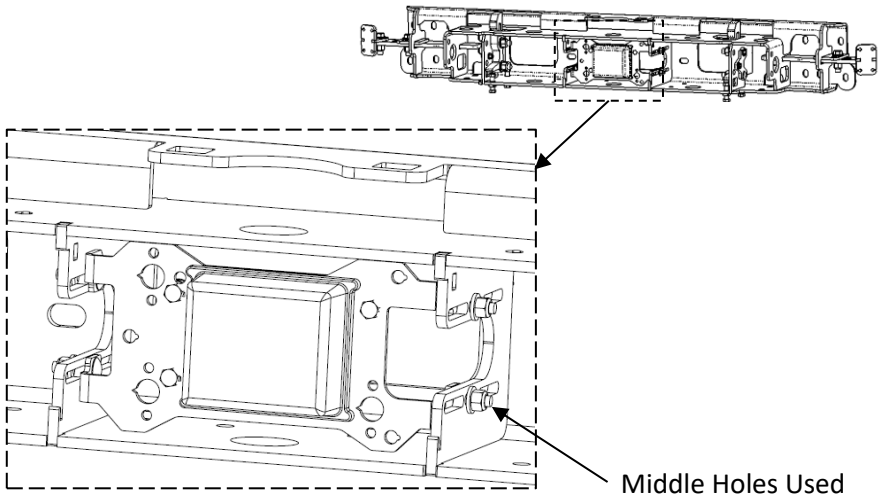


Figure 7 - Detroit Assurance Radar Sensor Installation

3. Plug in the radar harness, making sure harness is properly secured.
4. Align the Detroit Assurance radar sensor. Consult OEM sales representatives for instructions.

Appendix A:

Removing Bendix FLR20 radar sensor from OE bracket:

Remove radar and mounting bracket from vehicle, then remove radar from mounting bracket. Use caution to avoid injury.

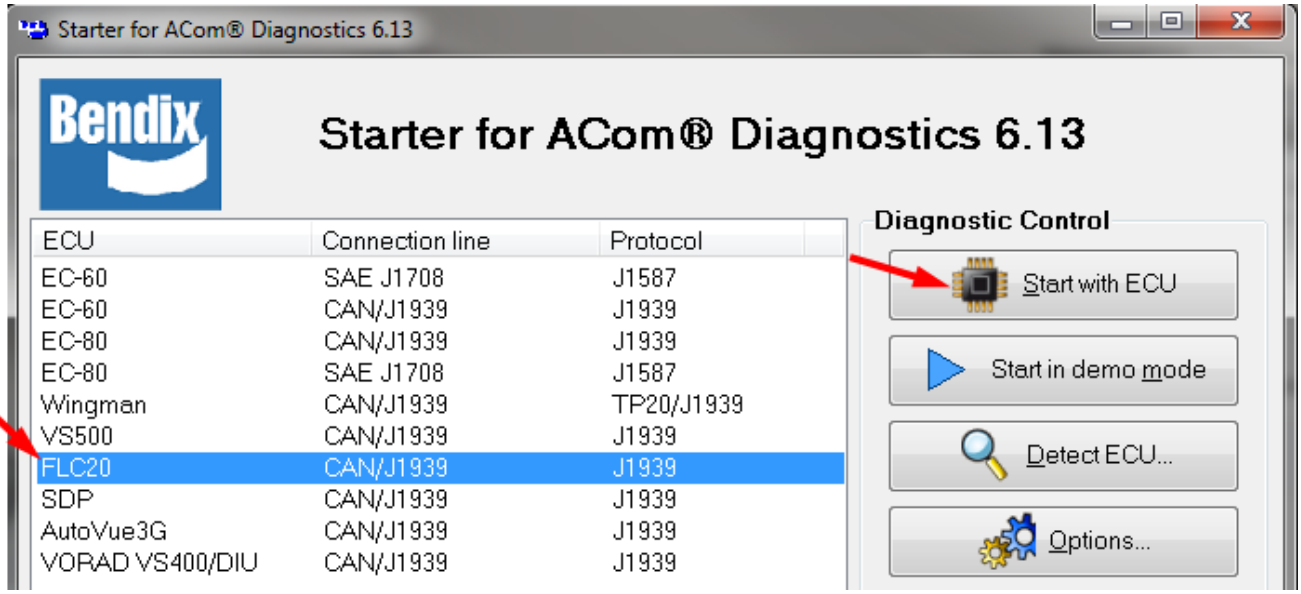
1. Disconnect wire harness from radar. Slide orange Connector Position Assurance (CPA) tab to the left to release locking tab. Lift locking tab and remove connector. Protect connector and harness from damage.
2. Remove and keep the three clips attaching radar to adjusters. Use release tool.

3. Inspect clips for damage and replace as necessary. Use Bendix kit K073199 for standoffs and clips replacement.

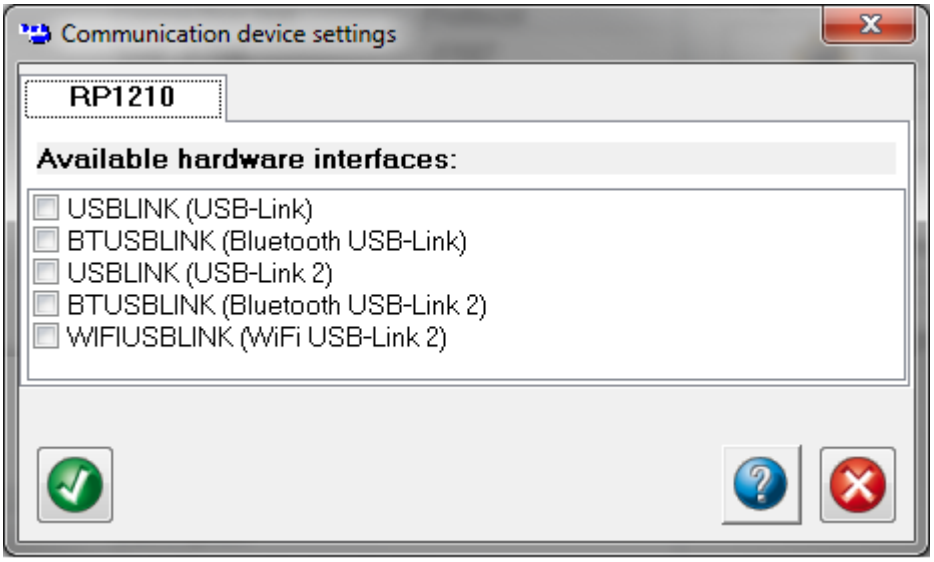
Appendix B:

Distance from camera to front bumper parameter change using ACOM:

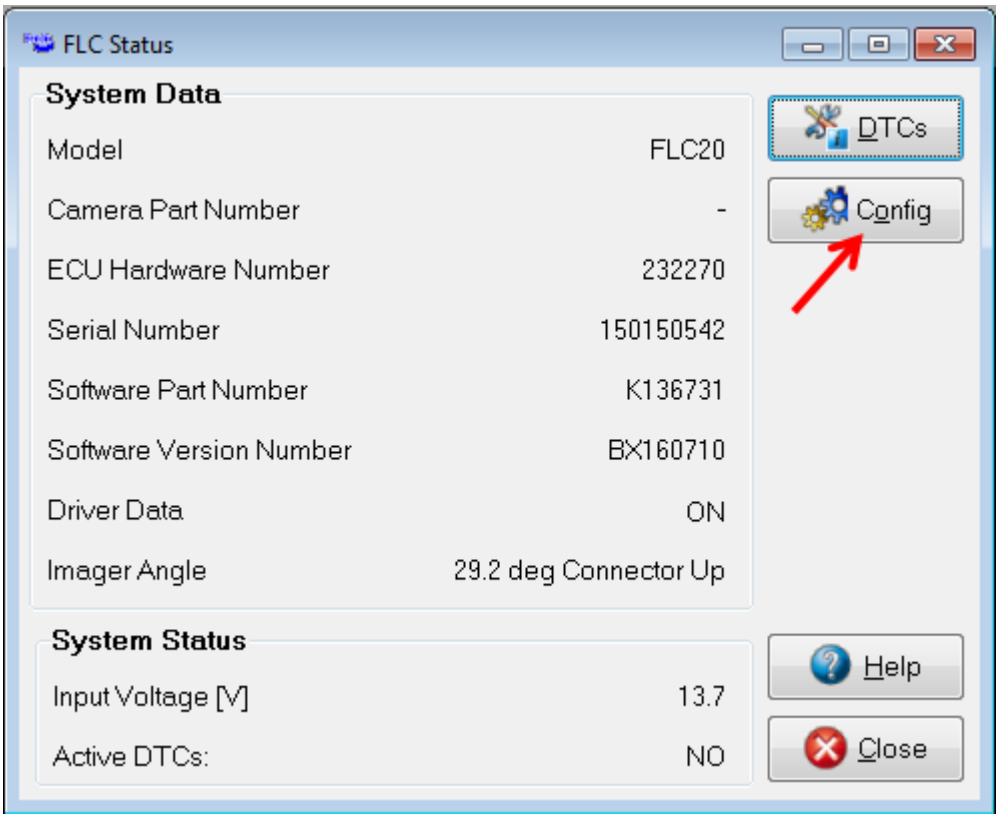
1. Download ACOM Software from Bendix website and install. (http://www.bendix.com/en/servicessupport/abssoftware/acomdiagnosticsdownload/genericform.jsp)
2. Bendix® ACom® Diagnostic Software can be started from desktop shortcut, or from main Windows® screen with "Start...Programs...Bendix...ACom® Diagnostic Software." To begin, technician selects "FLC20" from Starter screen, then "Start with ECU" from Diagnostic Control panel.



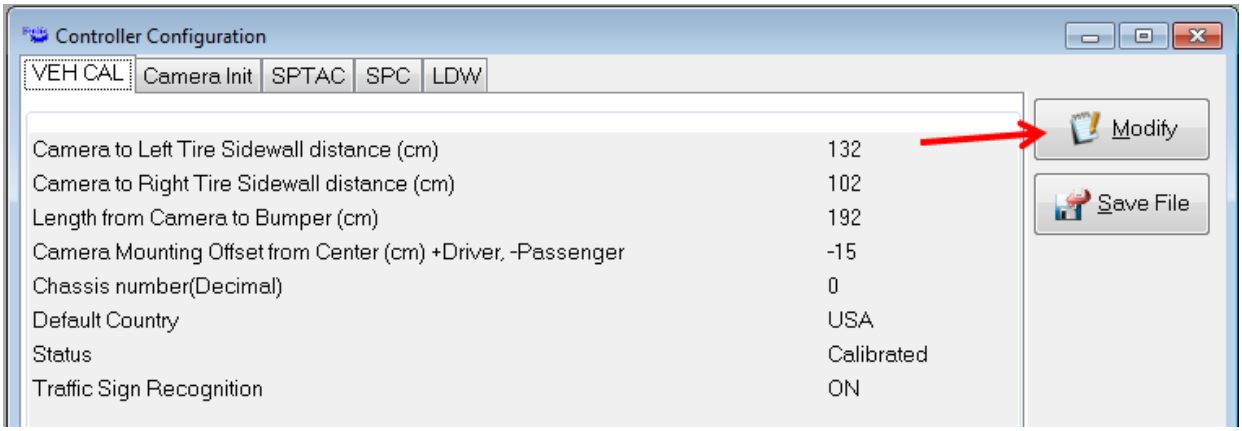
NOTE: When using ACom Diagnostic Software for first time, service technician will be asked to select communication adapter for the Bendix® Fusion™ FLC20™ camera. Technician will need to indicate which communication protocol to use. Once a successful connection has been made, these steps will no longer be necessary.



3. As soon as application is loaded, click on “Config” button or “Controller Configuration” in Menu bar.



4. Under VEH CAL tab, click on “Modify” button.



5. Update parameter “Length from Camera to Bumper” with new value (using Table 3 below), and click on “Write” button.

   For reference, radar sensor on Herd bracket is relocated as per table 3 below, with respect to OEM location.

Truck Models	Radar Sensor Relocation
International LT, RH	15 cm Forward
Kenworth T680	19 cm Forward
Kenworth T880	19.7 cm Forward
Peterbilt 579	19 cm Forward
Mack Anthem	17.2 cm Forward
Volvo VNL	contact HERD
All other models	contact HERD

Table 3 - Radar Sensor Location on Herd Bumper

Note: From Figure 10 below, the default “Length from Camera to Bumper” is 192 cm. If we add 19 cm (from Table 3), our new value will be 211 cm.

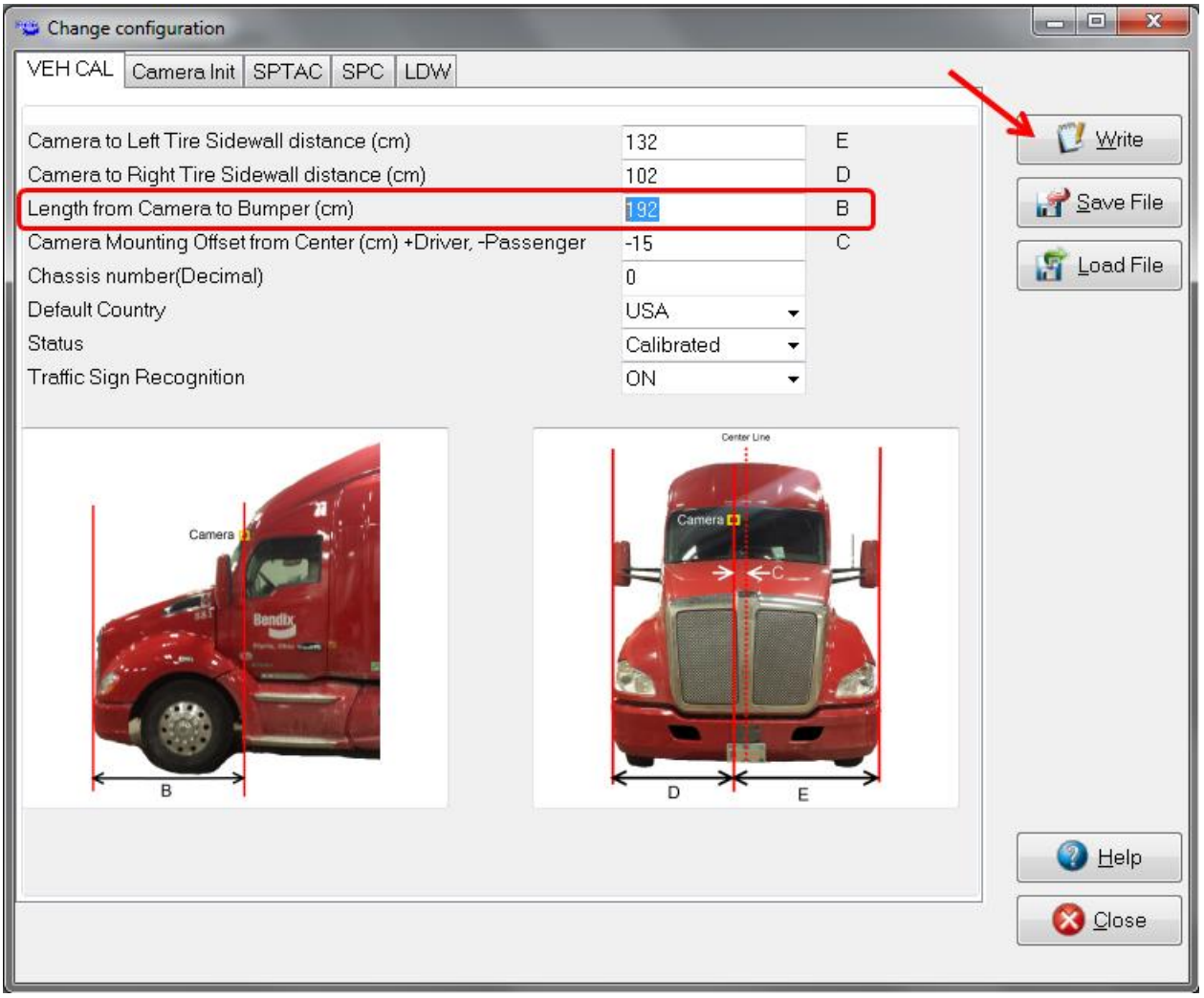
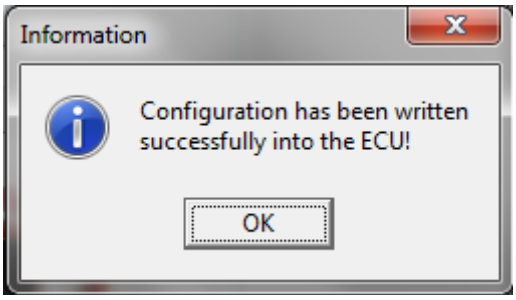


Figure 8 - Change Configuration

6. Click “OK”.



7. Camera is now configured, and ACOM can be closed.