

## CHASSIS TECH TIPS

### Subject:

ABS Wheel Sensor (active fault 3-1 thru 3-4)

#### 1. RELEVANT MODELS:

All 2005 thru 2008 Conventional Models.

#### 2. COMPLAINT:

ABS warning light is on. Code 3-1 thru 3-4.

#### 3. CAUSE/CONDITION:

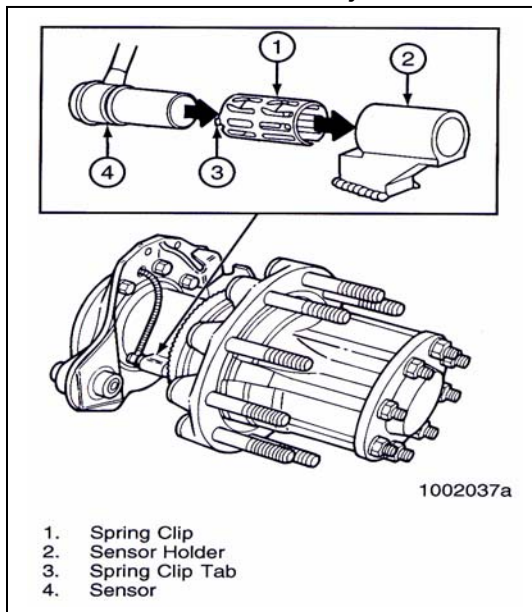
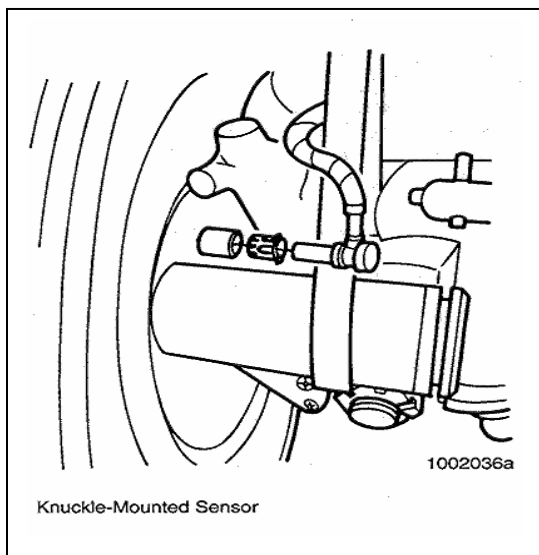
ABS sensor out of adjustment.

There have been a number of chassis found with active ABS codes during Pre Delivery Inspections.

#### 4. CORRECTION:

Before spending extensive time diagnosing the ABS fault code, verify all ABS sensor adjustments. Push the sensor in until it makes contact with the sensor ring. It is possible that sensor harnesses may be pulled or tugged on during the decking and shipping process causing these sensors to come out of adjustment.

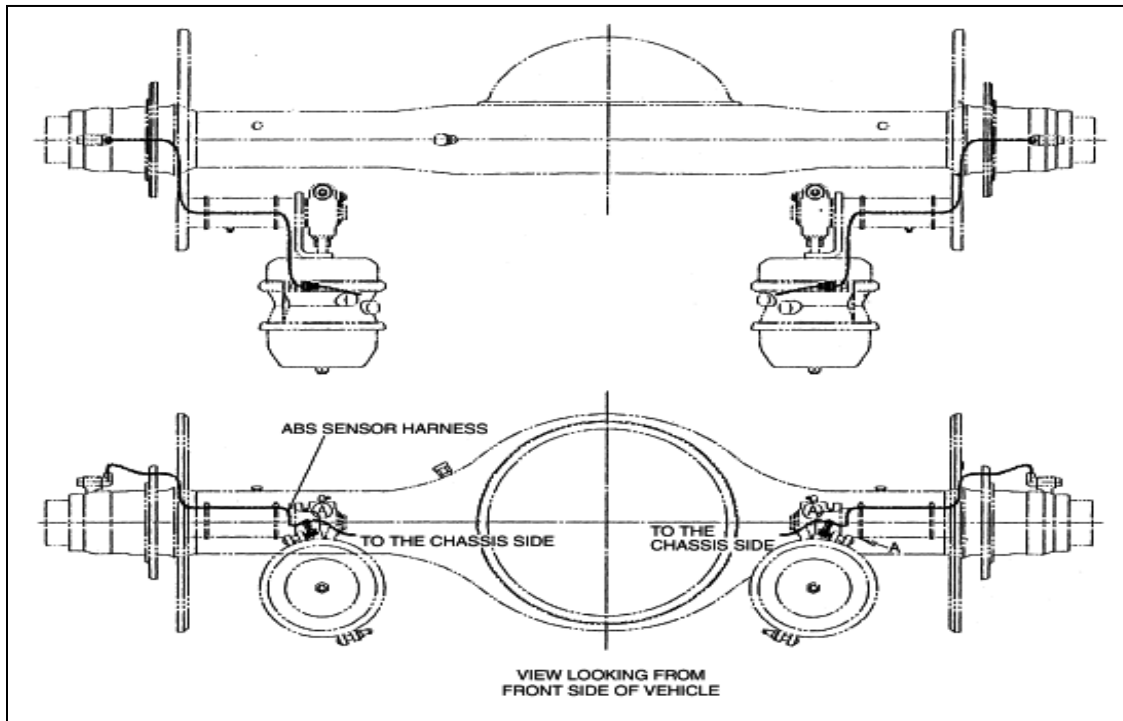
It should be common practice whenever a wheel hub is removed for any reason (brake job, wheel seal) the ABS sensor should be adjusted before releasing the unit back into service.



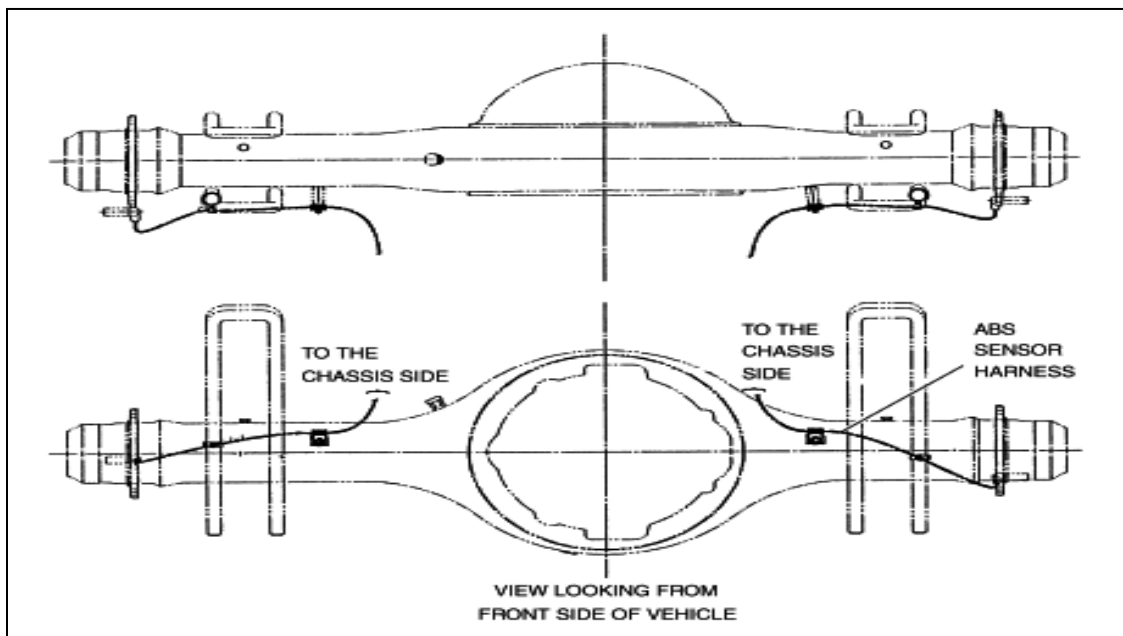
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Verify the ABS sensor wiring is clamped and secured properly.

## Rear Axle Air Brake Chassis

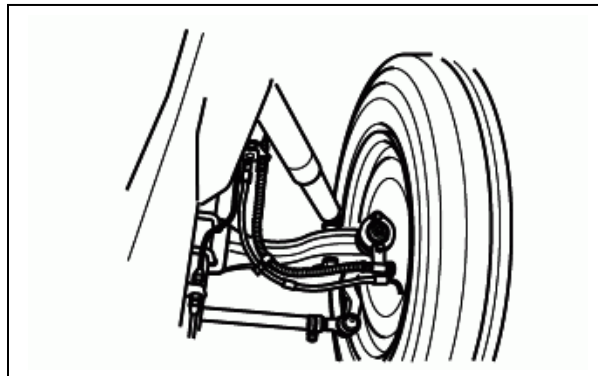


## Rear Axle Hydraulic Brake Chassis

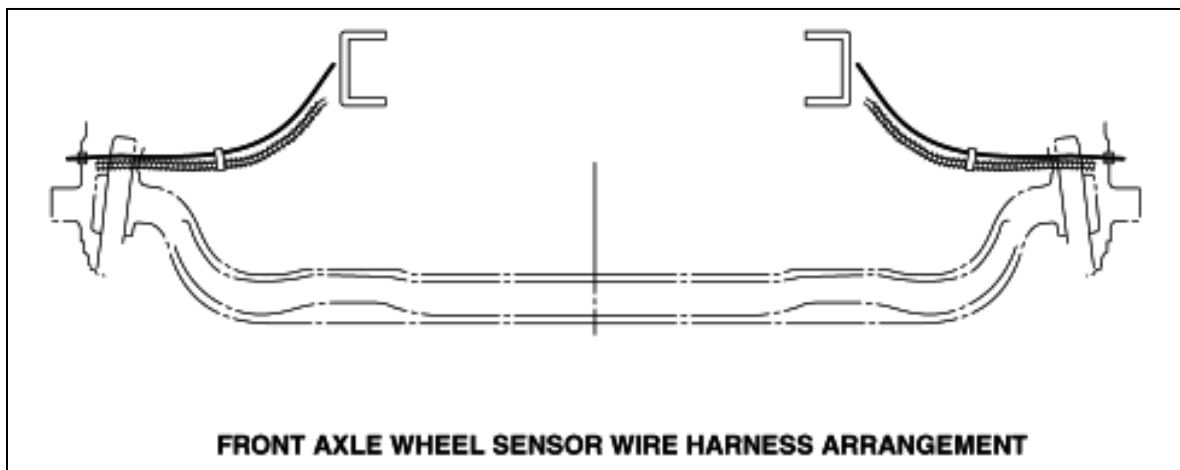


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The wire harness that runs from the side frame to the front axle wheel sensor must absorb the steering angle of the front wheel and the movement of the chassis springs. It is therefore necessary to always maintain an optimal spacing between the clips.



The optimal spacing between the clips is achieved when the wheel sensor connectors are attached in the regular locations shown in the diagram such that the sensor cabling within the frame is not loose. When disassembling and reassembling, confirm that the connector and sensor cable layout is appropriate.



**NOTE:** After all adjustments are made the vehicle must be driven in order for the ABS light to be reset and go out.