

**star bulletin****DTB**

Date: March 3, 2006  
Order No.: T-B-42.45/63a  
Supersedes: T-B-42.45/63 dated August 24, 2005  
Group: 42

**Revision:**

**SUBJECT: Model 164.175/186, up to VIN A007100  
ABS/BAS/ESP, Tire Pressure, and/or Brake Wear Visit Workshop Displayed in Instrument Cluster**

If you receive customer reports in the above model vehicles of the messages listed below displayed within the instrument cluster's multifunction display, inspect the front wheel speed sensors and brake wear sensor harness for evidence of chafing with the front axle shaft. If chafing exists, replace the damaged component(s) and install modified intermediate brake hose retaining clips (reference WIS documents [AR42.30-P-0712GZ](#), and [AH42.10-P-0003-01GZ](#)).

**Instrument Cluster Multifunction Display Messages**

- "Tire Pressure Monitoring Nonfunctional"
- "Tire Pressure Monitor Inactive"
- "Brake Wear Visit Workshop"
- "ABS Defective Visit Workshop"
- "BAS Defective Visit Workshop"
- "ESP Defective Visit Workshop"
- "ABS Not Available, See Operator's Manual"
- "ABS Display Defective Visit Workshop"
- "ESP Not Available, See Operator's Manual"
- "ESP Display Defective Visit Workshop"

**i Note:** Ensure that the front wheel speed and brake wear sensor harnesses from each side of the vehicle are inspected. Only replace the front wheel speed sensor and brake wear sensor harness if damaged. Additionally ensure that the modified intermediate brake hose retaining clip is installed on both sides.

**i Note:** When mounting the modified intermediate brake hose retaining clip ensure that it is properly positioned and attached to the steering knuckle (reference WIS documents [AR33.25-P-0400GZ](#) and [AR42.30-P-0712GZ](#)).

- i Note:** Either one or a combination of the following fault codes may be stored in the ESP control unit:  
 Right front wheel speed sensor fault codes (5100, 5101, 5102, 5103, 5105, and 5106).  
 Left front wheel speed sensor fault codes (5110, 5111, 5112, 5113, 5115, and 5116).

Fault Code	Fault Text
5100	L6/1 (left front speed sensor): Test wiring/plug connection
5113	L6/2 (right front speed sensor): Carry out visual inspection
5110	L6/2 (right front speed sensor): Test wiring/plug connection
5103	L6/1 (left front speed sensor): Carry out visual inspection
5104	L6/1 (left front speed sensor): Implausible wheel speed
5116	L6/2 (right front speed sensor): Carry out visual inspection
5112	L6/2 (right front speed sensor): Carry out visual inspection
5106	L6/1 (left front speed sensor): Carry out visual inspection
5102	L6/1 (left front speed sensor): Carry out visual inspection
5114	L6/2 (right front speed sensor): Implausible wheel speed
5115	L6/2 (right front speed sensor): Carry out visual inspection
5111	L6/2 (right front speed sensor): Carry out visual inspection
5105	L6/1 (left front speed sensor): Carry out visual inspection
5101	L6/1 (left front speed sensor): Carry out visual inspection

Parts Information		
Qty.	Part Name	Part Number
2	Intermediate brake hose retaining clip	A164 421 03 94 **
1	Wheel speed sensor (left or right)	A164 540 09 17 **
1	Brake wear sensor harness	A164 540 46 33 **
2	Bracket	A202 546 33 43 **

\*\*Parts are in a critical supply situation and will be limited, please see the PAC weekly status report on parts availability status and delivery expectations. This report is located on the PAC website.

- i Note:** The following allowable labor operations should be used when submitting a warranty claim for this repair.

In Case of Warranty			
<b>Operation:</b> Short test, perform (54-1011) VSS sensor (ESP), L/front axle, replace (after test) (42-9871) VSS sensor (ESP), R/front axle, replace (after test) (42-9872) VSS sensor (ESP), Both on front axle, replace (after test) (42-9873) Wheels – two, R&R (42-1590) Brake pads – front, R&R/replace, if required (wheels removed) (42-2706)			
Damage Code	Operation Number	Time (hrs.)	Model Indicator (s)
41051 20	54 1011	0.3 hrs.	00

	42 9871	0.4 hrs.	Z1, Z2
	42 9872	0.4 hrs.	Z1, Z2
	42 9873	0.6 hrs.	Z1, Z2
	42 1590	0.3 hrs.	Z1, Z2
	42 2706	0.6 hrs.	Z1, Z2