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## Display message "Tire pressure monitor inoperative"

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Topic number	LI40.15-P-053382
Version	2
Design group	40.15 Tire pressure/tire pressure monitoring
Date	03-15-2012
Validity	Models 204 and 171 with SA code 470
Reason for change	Procedure revised

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**Complaint:**

Display message "Tire pressure monitor inoperative". Fault code (FC) 5581 ("Front or rear sensor localization failed") is stored in the control unit.

**Cause:**

The signal level difference between front and rear axles is marginal. Therefore no permanent assignment can be made.

**Remedy:**

1. Create access to component N88 (tire pressure monitor control unit) and tire pressure monitor wiring harness in rear area. Location of N88 tire pressure monitor control unit (see WIS reference).
2. Shorten ground line in tire pressure monitor wiring harness and retie it to the existing body point, see attachment.

**Model 204:**

- Partially separate ground line (brown), pin 2, from tire pressure monitor control unit wiring harness as far as partition wall and cut at this point.
- Fix the shortened ground line to the sliding roof water drain pipe (SA code 414) with fabric tape at two points and fasten to the existing M6 stud (side rear panel) with a cable lug.
- In vehicles with panoramic roof (SA code 413), fix the ground line diagonally to the side rear panel without electrical contact. It is advisable to install padding behind the ground line.

Note: The reception quality will only be improved if the ground line does not touch the bodywork and if the tire pressure monitor wiring harness is routed on the opposite side of the tire pressure monitor antenna.

Model 171: Line routing and shortening of ground line as for model 204, see attachment (Figures 171-1, 171-2).

3. Insulate remaining ground line and tie back into wiring harness.
4. Set tire inflation pressure (at least min. tire pressure) at ambient temperature (outside temperature). The temperature difference between the workshop and the outside temperature must be taken into account when setting the tire inflation pressure, especially during the winter months!

Example: With a temperature difference of e.g 30° Celsius (20° Celsius in the workshop and minus 10° Celsius outside), the tire pressure must be set 0.3 bar higher because, when set in the workshop, it will drop again on cooling to the outside temperature.

5. Process DAS fault tree for FC 5581 with update 01/2009 or higher.
6. Restart tire pressure monitor system with the Reset button.

7. The status message "Tire pressure monitor inoperative" (not a fault message) is still stored and can only be reset by performing a 15-minute test drive.

Attachments	
File	Designation
204.JPG	1 Tire pressure monitor wiring harness 2 Ground line branch 3 Partition wall 4 Fixing points 5 Body ground point
171-1.jpg	1 Tire pressure monitor wiring harness 2 Fixing point 3 Body ground point
171-2.jpg	Viewed from top 1 Body ground point 2 Separated ground line

Symptoms
Tire pressure monitoring / Tire press. monitor inoperative / Tire pressure monitor TPM display / Chassis/suspension / Display in yellow / Wheels/tires /

Control unit/fault code		
Control unit	Fault code	Fault text
TPC-Tire pressure monitor (TPM2) (SLK (171))	5581	Front or rear sensor localization was unsuccessful.
RDK - Tire pressure monitor (N88) (TPM_204) (C (204))	5581	Front or rear sensor localization was unsuccessful.

Work units				
Op. no.	Operation text	Time	Damage code	Note
54-9204	REPAIR ELECTRICAL LINE FOR TIRE PRESSURE MONITOR		53335 EC	

WIS-References			
Document number	Title	Note	Allocation
GF40.15-P-0001-06CE	Tire pressure monitor (TPM) , location of components	Model 204.0 as of model year 09/YoM	Remedy
GF40.15-P-0001-06RC	Tire pressure monitor (TPM) , location of components	Model 171.4 as of model year 09/YoM 08	Remedy
GF40.15-P-0001-06SK	Tire pressure monitor (TPM) , location of components	Model 171.4 up to model year 08/YoM 07	Remedy
GF40.15-P-0001-06CW	Tire pressure monitor (TPM) , location of components	Model 204.0 up to model year 08/YoM 07	Remedy

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