

Engine diagnosis indicator lamp lights up in instrument cluster and fault code P203B00 is stored in the AdBlue® (SCR) control unit

Topic number	LI14.40-N-069569
Version	2
Function group	14.40 Exhaust aftertreatment, AdBlue
Date	09-09-2019
Validity	Model 906 as from 01.07.13 with engine 651 Model 906 as of 01.07.13 with engine 642
Reason for change	Remedy added for noticeable problems with the capillary stop connectors of the electric lines between the AdBlue® control unit (SCR) and the AdBlue® tank module (A102).
Reason for block	

Complaint:

Engine diagnosis indicator lamp lights up in instrument cluster and fault code P203B00 stored in AdBlue® (SCR) control unit.

Cause:

- Erroneous refueling of AdBlue® tank.
- Poor contact of AdBlue® fill level sensor on electrical plug of AdBlue® tank module (A102).
- Temporary resistance in the capillary stop connectors of the electric lines between the AdBlue® control unit (SCR) and the AdBlue® tank module (A102).

Remedy:

1. Visually inspect AdBlue® tank for signs of erroneous refueling.

Information: To do so, check the AdBlue® concentration level (see AR14.40-D-2041S for model 906). In the event of any erroneous refueling, the repair work must be conducted as per the procedure in the Service Information bulletin SI14.40-S-0014A.

2. Check function of AdBlue® fill level sensor using actual values for fill level of AdBlue® tank (absolute value) in XENTRY Diagnosis.

Information: Extract approx. 2-3 liters of AdBlue® from AdBlue® tank (see AR14.40-D-2014-02A and AR14.40-D-2014-02S for model 906), the fill level in the AdBlue® tank must change accordingly. If there is no change in the fill level in the AdBlue® tank, research further to determine reason for problem and introduce appropriate repair measures.

3. Check electric lines between AdBlue® (SCR) control unit and AdBlue® fill level sensor in AdBlue® tank module (A102) (see picture 01).

XENTRY TIPS

Information: If there are any noticeable faults with the electric lines between the AdBlue® (SCR) control unit and the AdBlue® fill level sensor in the AdBlue® tank module (A102), appropriate repair measures must be introduced.

4. Replace coupling housing, contact sockets and single conductor seals of electrical plug on the AdBlue® tank module (A102) (pins 3, 4 and 5 (contacting of fill level sensor)) (see picture 01).

Information: Conduct only when operation steps 1, 2 and 3 are conducted without any noticeable problems. To repair the electrical plug, please refer to documents AR00.19-D-0100A (model 906), and AR00.19-S-0120E.

Note: In the event of noticeable problems with the capillary stop connectors of the electric lines between the AdBlue® control unit (SCR) and the AdBlue® tank module (A102), the capillary stop connectors must be replaced with solder terminal connectors in accordance with the relevant instructions (see AR00.19-P-0100-09A).

Info: For the layout of the capillary stop connectors of the electric lines between the AdBlue® control unit (SCR) and the AdBlue® tank module (A102), see picture 03.

Attachments	
File	Description
01.jpg	Pins 3, 4 and 5 (contacting of fill level sensor) of electrical plug on AdBlue® tank module (A102) (model 906).
03.jpg	Layout of capillary stop connectors of the electric lines between the AdBlue® control unit (SCR) and the AdBlue® tank module (A102).

Symptoms
Power generation / Engine management / Indicator lamp / Engine diagnosis / lit
Power generation / Engine management / Function / Malfunction

Control unit/fault code		
Control unit	Fault code	Fault text
N141 - Selective catalytic reduction SCRCM3	P203B00	The AdBlue® fill level sensor has a malfunction. _

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A 211 545 11 28			Coupling housing	1		X
A 013 545 15 26			Female contact	3		X
A 000 545 71 80			Single-wire seal	3		X
A 001 546 99 41			Solder terminal connector		As required.	X

Operation numbers/damage codes

XENTRY TIPS

Op. no.	Operation text	Time	Damage code	Note
54-1011	PERFORM QUICK TEST	---		
47-0643	SEPARATE PARTS OF ADBLUE(R) SYSTEM: CHECK ACCORDING TO FAULT CODES	---		
54-9201	REPLACE ELECTRICAL CONNECTOR FOR	---	47072 73	AdBlue(R) tank fill level sensor (E) - electrical fault Information: Conduct only when operation steps 1, 2 and 3 are conducted without any noticeable problems. The listed damage code is not to be considered as an acceptance of costs. The general guidelines in the Warranty Manual apply.

WIS-References			
Document number	Title	Note	Allocation
AR00.19-D-0100A	Wiring harness general repair methods	Model 906	Remedy
AR00.19-S-0120E	Remove contacts from connectors, couplings		Remedy
AR14.40-D-2014-02A	Empty/fill AdBlue tank	Engine 642 in model 906 with code KP2 (AdBlue tank, 12 l, in engine compartment) and with code MH1(Low-pollutant engine EPA 10 / CARB) Engine 642 in model 906 with code KP2 (AdBlue tank, 12 l, in engine compartment) and with code MH3 (Low-pollutant engine EPA 13 / CARB) Engine 642 in model 906 with code MA6 (Emissions class, Euro 6b N1 GR.III/ N2) and except code KP2 (AdBlue tank, 12 l, in engine compartment) Engine 642 in model 906 with code MB6 (Low-pollutant vehicle, Euro 6 Gr. 1) and except code KP2 (AdBlue tank, 12 l, in engine compartment) Engine 642 in model 906 with code MH5 (Low-pollutant engine EPA 14/CARB) and except code KP2 (Ad-	Remedy

XENTRY TIPS

		<p>Blue tank, 12 l, in engine compartment) Engine 642 in model 906 with code MH7 (Low-pollutant engine EPA 16/CARB) and except code KP2 (AdBlue tank, 12 l, in engine compartment) Engine 642 in model 906 with code MP6 (Euro VI engine version) and except code KP2 (AdBlue tank, 12 l, in engine compartment) Engine 651 in model 906 with code MA6 (Emissions class, Euro 6b N1 GR.III/ N2) Engine 651 in model 906 with code MB6 (Low-pollutant vehicle, Euro 6 Gr. 1) Engine 651 in model 906 with code MH5 (Low-pollutant engine EPA 14/CARB) Engine 651 in model 906 with code MH8 (Low-pollutant engine, SULEV) Engine 651 in model 906 with code MI6 (Emissions class, PROCONVE L6) Engine 651 in model 906 with code MP6 (Euro VI engine version)</p>	
AR14.40-D-2014-02S	Empty/fill AdBlue tank	<p>Engine 642 in model 906.6/7 with code MH1 (Low-pollutant engine EPA 10 / CARB) and except code KP2 (AdBlue tank, 12 l, in engine compartment) Engine 642 in model 906.6/7 with code MH3 (Low-pollutant engine EPA 13 / CARB) and except code KP2 (AdBlue tank, 12 l, in engine compartment)</p>	Remedy
AR14.40-D-2041S	Check AdBlue concentration	Model 906	Remedy
SI14.40-S-0014A	Service Information bulletin: Filling AdBlue tank		Remedy
AR00.19-P-0100-09A	Repair wiring harness using solder connectors		Remedy

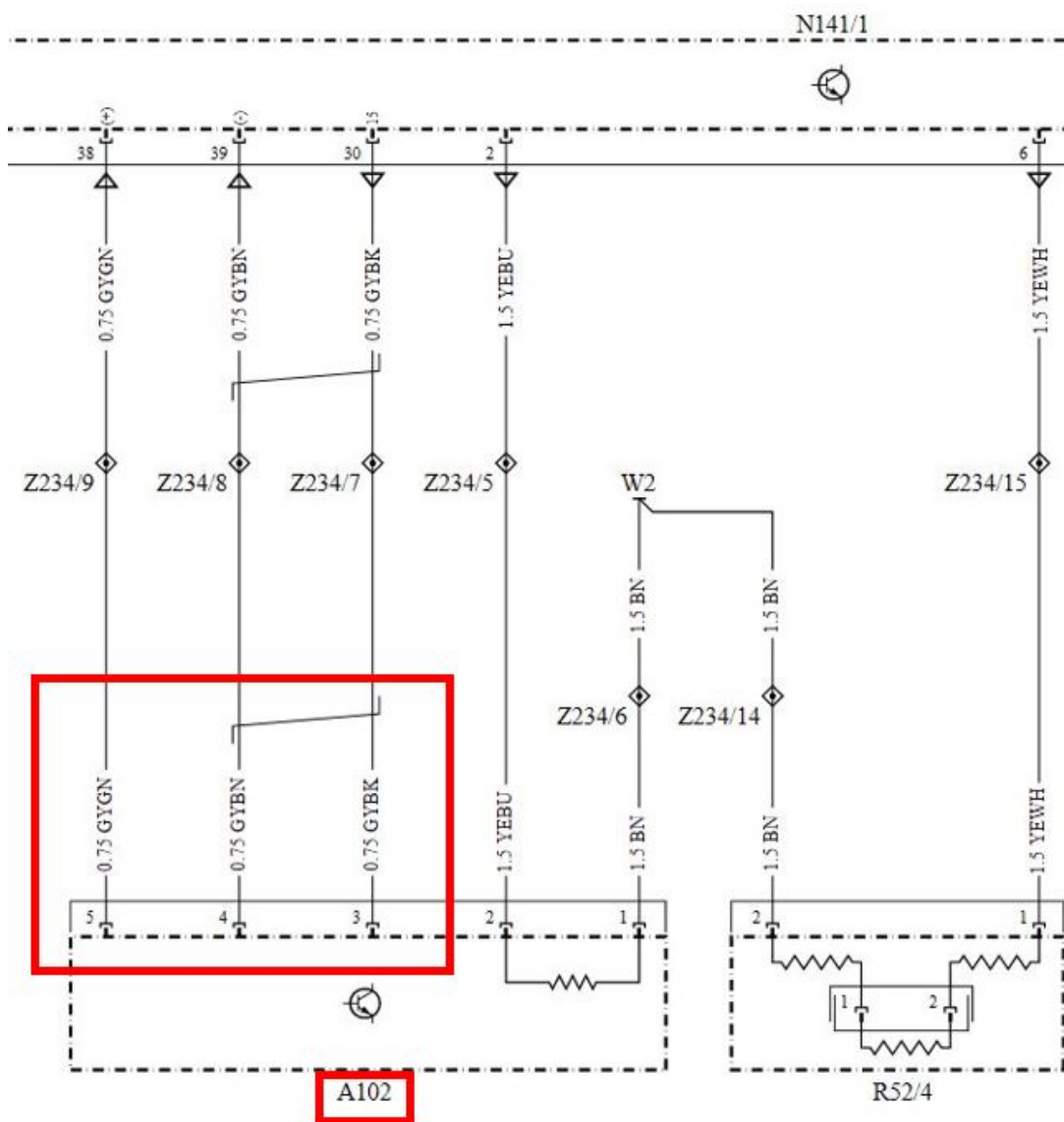
Validity		
Vehicle	Engine	Transmission

XENTRY TIPS

Sprinter III	642	*
Sprinter III	651	*

Attachments

01.jpg:



XENTRY TIPS

03.jpg:

