BR205 M177 fault code for exhaust gas flap in combination with power loss

Topic number	LI49.10-P-066012
Version	2
Design group	49.10 Exhaust pipes, catalytic converter, mufflers
Date	07-20-2017
Validity	BR205 with M177 and Performance exhaust system, SA code U78
Reason for change	Fault codes and text corrected
Reason for block	

Complaint:

Power loss on the freeway driving under load (long periods at wide open throttle or multiple accelerations)

Assignment of exhaust gas flaps:

Left exhaust gas flap

Right exhaust gas flap 2

Front exhaust gas flap 3

Cause:

1st case

One of the following fault codes is logged:

Right rear exhaust gas flap:

P141100 Exhaust gas flap 2 has an electrical fault or an open circuit

P141200 Exhaust gas flap 2 has a short circuit to positive

P141300 Exhaust gas flap 2 has a short circuit to ground

Left rear exhaust gas flap:

P13C700 The exhaust gas flap has an electrical fault or an open circuit

P13C800 The exhaust gas flap has a short circuit to positive

P13C900 The exhaust gas flap has a short circuit to ground

Other faults may also be triggered!

Note:

The 1st case faults must always be processed first

Fault codes for exhaust gas flap 3 are not power-relevant (front exhaust gas flap)

2nd case

One of the following fault codes is logged:

Right rear exhaust gas flap:

P140400 Exhaust gas flap 2 has a malfunction.

P140471 Exhaust gas flap 2 has a malfunction. The actuator is blocked.

P140472 Exhaust gas flap 2 has a malfunction. The actuator fails to close.

P140473 Exhaust gas flap 2 has a malfunction. The actuator fails to open.

Left rear exhaust gas flap:

P13C200 The exhaust gas flap has a malfunction.

P13C271 The exhaust gas flap has a malfunction. The actuator is blocked.

P13C272 The exhaust gas flap has a malfunction. The actuator fails to close.

P13C273 The exhaust gas flap has a malfunction. The actuator fails to open.

Other faults may also be logged!

Attachments	
File	Description
Abgasklappenzuordnung 4.2017.pdf	.

Remedy:

Perform the following work according to the faults in the fault memory

1st case

Check wiring and the connections of the exhaust gas flap control from the control unit to the actuator

- If necessary, repair

2nd case

Check whether other faults are logged in addition to the exhaust gas flap, for example engine faults and CAN communication errors

- If necessary, process engine faults and CAN communication errors first

Check right rear ground point in trunk

- If necessary, strip ground point and repaint

Check exhaust gas flaps for proper operation

Remove actuator, check actuator and spring for damage

- If necessary, replace damaged parts

Check exhaust gas flap for ease of movement (target < 0.2 Nm)

- Lubricate affected exhaust gas flaps with heat-resistant grease A000 989 91 51, see also other related published TIPS documents in group 49

If complaints have not been rectified after these measures,

report the situation by opening a PTSS case.

The following are required when submiting a case:

What is the exact complaint in details?

Current quick test.

If power loss:

Operating condition (hot, cold)

Drive program (C, S, S+, Race)

Driving time (short distance or after long driving time)

Driving profile (urban traffic, freeway, race track/ cautious, normal, sporty)

Symptoms
Power generation / Engine management / Engine performance / No/poor output
Power generation / Engine management / Engine performance / Cuts off

Control unit/fault code		
Control unit	Fault code	Fault text
N3/10 - Motor electronics 'MED1775' for combustion engine 'M177' (ME)	P13C800	The exhaust flap has a short circuit to positive. _
N3/10 - Motor electronics 'MED1775' for combustion engine 'M177' (ME)	P141300	Exhaust flap 2 has a short circuit to ground. _
N3/10 - Motor electronics 'MED1775' for combustion engine 'M177' (ME)	P140400	Exhaust flap 2 has a malfunction. _
N3/10 - Motor electronics 'MED1775' for combustion engine 'M177' (ME)	P140471	Exhaust flap 2 has a malfunction. The actuator is blocked.
N3/10 - Motor electronics 'MED1775' for combustion engine 'M177' (ME)	P140473	Exhaust flap 2 has a malfunction. The actuator does not open.
N3/10 - Motor electronics 'MED1775' for combustion engine 'M177' (ME)	P140472	Exhaust flap 2 has a malfunction. The actuator does not close.

N3/10 - Motor electronics 'MED1775' for combustion engine 'M177' (ME)	P13C900	The exhaust flap has a short circuit to ground. _
N3/10 - Motor electronics 'MED1775' for combustion engine 'M177' (ME)	P13C700	The exhaust flap has an electrical fault or an open circuit. _
N3/10 - Motor electronics 'MED1775' for combustion engine 'M177' (ME)	P13C271	The exhaust flap has a malfunction. The actuator is blocked.
N3/10 - Motor electronics 'MED1775' for combustion engine 'M177' (ME)	P13C200	The exhaust flap has a malfunction. _
N3/10 - Motor electronics 'MED1775' for combustion engine 'M177' (ME)	P13C273	The exhaust flap has a malfunction. The actuator does not open.
N3/10 - Motor electronics 'MED1775' for combustion engine 'M177' (ME)	P13C272	The exhaust flap has a malfunction. The actuator does not close.
N3/10 - Motor electronics 'MED1775' for combustion engine 'M177' (ME)	P141100	Exhaust flap 2 has an electrical fault or an open circuit. _
N3/10 - Motor electronics 'MED1775' for combustion engine 'M177' (ME)	P141200	Exhaust flap 2 has a short circuit to positive. _

Parts

Part number	ES1	ES2	Designation	Quantity	Note	EPC
A 000 989 91 51			Heat-resistant grease	0.1	Several vehicles can be treated	X

Validity

Vehicle	Engine	Transmission
C (205) - 205.086	*	*
C (205) - 205.087	*	*
C (205) - 205.286	*	*
C (205) - 205.287	*	*
C (205) - 205.386	*	*
C (205) - 205.387	*	*
C (205) - 205.486	*	*
C (205) - 205.487	*	*