

All M177 with DTC's - P213500, P213600, P210185, P210B85, P2AD300, or P2AD200 Current or Stored

Topic number	LI07.10-P-080384
Version	3
Function group	07.10 - Electronic engine control
Date	8/7/26
Validity	All M177 with DTC's - P213500, P213600, P210185
Reason for change	Additional Fault code

Complaint

Customer reports Check Engine Light with possible loss of power concern.

The Following DTC's are present

- P210185 - The throttle valve actuator has a malfunction. There is a signal above the permissible limit value.
- P213500 - The values from the position sensors of the throttle valve are implausible relative to each other
- P213600 - The values from position sensors "A/C" of the throttle valve are implausible relative to each other
- P210B85 - The throttle valve actuator 2 has a malfunction. There is a signal above the permissible limit value.
- P2AD300 - The values from the position sensors "A/G" of the throttle valve are implausible relative to each other
- P2AD200 - The values from position sensors "B/G" of the throttle valve are implausible relative to each other.

Cause

Increased electrical resistance in pins for left and right throttle actuators.

(M16/60 and M16/61)

Remedy

Replaced left and right throttle actuator Sockets with updated part.

Silver Coated Pins

8x A 003 982 70 26 (according to wiring diagram 0,5mm)

Gold Coated Pins

4x A 003 982 75 26 (according to wiring diagram 0,75mm)

ELA Seals

12x A 001 545 50 80

Disclaimer

NOTE: The information contained in this document is intended for use by trained, professional technicians with the knowledge to properly and safely perform diagnosis and repairs on Mercedes-Benz vehicles, using Mercedes-Benz approved tools and equipment. It informs service technicians about conditions that could occur in certain vehicles and provides information that could assist in proper vehicle diagnosis, service, or repair. It does not indicate that a defect is present in any vehicle referenced in this document nor does it imply warranty coverage. DO NOT assume that a symptom or condition, or a described cause of a symptom or condition, affects any particular vehicle or groups of vehicles, or that a described repair applies to any particular vehicle or groups of vehicles. There can be multiple causes resulting in the same or similar symptoms or conditions described in this document, and trained professional service technicians must use their diagnostic skills to make evaluations on a case-by-case basis. The information contained in this document does not guarantee warranty coverage nor does it extend the vehicle's warranty in any way.

Symptoms

Power generation > Engine management > Indicator lamp > Engine diagnosis > lit

Parts

Part number	ES1	ES2	Designation	Quantity	Note	EPC
A0015455080			ELA Weather Seals	12		X
A0039827026			Silver Socket connection (0.5mm)	8		X
A0039827526			Gold Plated Socket Connection (0.75mm)	4		X

Control unit/fault code

Control unit	Fault text
N3/10 - Motor electronics 'MRG1AMGV8' for combustion engine 'M177' (ME) (MRG1AMGV8)	P2AD200 - The values from position sensors "B/G" of the throttle valve are implausible relative to each other. _ P210B85 - The throttle valve actuator 2 has a malfunction. There is a signal above the permissible limit value. P2AD300 - The values from position sensors "A/G" of the throttle valve are implausible relative to each other. _
N3/10 - Motor electronics 'MRG1AMGV8' for combustion engine 'M177' (ME) (MRG1AMGV8)	P210185 - The throttle valve actuator has a malfunction. There is a signal above the permissible limit value. P213600 - The values from position sensors "A/C" of the throttle valve are implausible relative to each other. _ P213500 - The values from the position sensors of the throttle valve are implausible relative to each other. _

Operation numbers/damage codes

Op. no.	Operation text	Time	Damage code	Note
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