

Malfunctions in the vehicle in connection with the parameterizable special module (PSM)

Topic number	LI54.21-N-071993
Version	1
Function group	54.21 Control units / basic modules
Date	11-18-2020
Validity	Models 447, 906, 907 with code ED5 (Parameterizable special module)
Reason for change	
Reason for block	

Complaint:

Malfunctions in the vehicle in connection with the parameterizable special module (PSM).

Cause:

Errors in the parameterization data in the control unit of the parameterizable special module (PSM) (N26/15 or N26/16) or faults in other control units or systems installed in the vehicle.

Remedy:

Note: Do not replace any component parts!

1. Disconnect electrical connectors on the control unit of the parameterizable special module (PSM) (N26/15 or N26/16) (see AR54.21-S-2476E for model 447, AR54.21-D-2476H for model 906 or AR54.21-D-2476TS for models 907) and reproduce the fault again.

Information:

- If malfunctions are still present, the fault lies in the other control units or systems installed in the vehicle; continue investigating the customer complaint and implement appropriate repair measures.

- If malfunctions are no longer present, the fault lies in the parameterization data in the control unit of the parameterizable special module (PSM) (N26/15 or N26/16); continue with operation step 2.

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2. Re-connect the electrical connectors to the control unit of the parameterizable special module (PSM) (N26/15 or N26/16) (see AR54.21-S-2476E for model 447, AR54.21-D-2476H for model 906 or AR54.21-D-2476TS for models 907).

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3. Connect the diagnostic device (see AD00.00-S-2000-04E for model 447, AD00.00-D-2000-04SD for model 906 or AD00.00-D-2000-06TS for models 907).

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4. Write the coding data to a file so that the existing parameterizations are not lost.

Information: To do this, select the following menu items:

XENTRY TIPS

- Model 447: Quick Test View → N26/16 – Parameterizable Special Module (PSM) → Expert Coding → Expert Coding → Write Coding Data to a File

- Models 906, 907: Quick Test View → N26/15 – Parameterizable Special Module (PSM) → Adaptations → Configuration → Manual Settings → Expert Coding

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5. Perform SCN coding in the control unit of the parameterizable special module (PSM) (N26/15 or N26/16) (see AR54.21-S-0015E for model 447, AR54.21-D-0015X for model 906, or AR54.21-D-0015TS for models 907); this procedure only parameterizes the factory-installed items (e.g. step, retarder, etc.).

Information: To do this, select the following menu items:

- Model 447: Quick Test View → N26/16 – Parameterizable Special Module (PSM) → Adaptations → Control Unit Update → Update SCN Coding

- Models 906 and 907: Quick Test View → N26/15 – Parameterizable Special Module (PSM) → Adaptations → Control Unit Update → Update SCN Coding

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6. Reproduce the malfunctions again.

Information: If malfunctions are no longer present, the fault lies in the modified parameterization data in the control unit of the parameterizable special module (PSM) (N26/15 or N26/16) from the body manufacturer, Upfitter or the workshop responsible for changing the data.

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7. Run a full check on the parameterization data in the control unit of the parameterizable special module (PSM) (N26/15 or N26/16) and change if necessary (see AR54.21-S-2001E for model 447, AR54.21-D-2001H for model 906 except code XM0 (Facelift), AR54.21-D-2001A for model 906 with code XM0 (Facelift) or AR54.21-D-2001TS for models 907).

Information: To do so, contact the programmer of the control unit of the parameterizable special module (PSM) (N26/15 or N26/16) (e.g. body manufacturer, Upfitter or another workshop), and clarify who should carry out the changes.

Information: If assistance is required for this, please consult the Upfitter Portal --- 'Ask A Question' (via: Upfitter-Portal.com)

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8. Connect the diagnostic device (see AD00.00-S-2000-04E for model 447, AD00.00-D-2000-04SD for model 906 or AD00.00-D-2000-06TS for models 907).

Note: If the complaint is due to errors in the parameterization data in the control unit of the parameterizable special module (PSM) (N26/15 or N26/16) and these errors have been caused by the body manufacturer, Upfitter or another workshop, the replacement of component parts or the invoicing of material and wage costs through warranty or goodwill is not permissible.

Symptoms
Power transmission / Retarder / Function / Malfunction
Overall vehicle / Complete vehicle / Modified to

XENTRY TIPS

Body / Special-purpose vehicles / Emergency vehicles / Special signal system / Malfunction
Body / Special-purpose vehicles / Emergency vehicles / Roof light bar / Malfunction
Overall vehicle / Networking / Diagnosis/software / Current problems
Power transmission / Power take-off/additional drive system / Function / Malfunction, ADR
Power transmission / Power take-off/additional drive system / Function / Parameter setting false
Overall vehicle / Networking / Diagnosis/software / Not diagnosable
Body / Special-purpose vehicles / Customer request / Malfunction

Control unit/fault code		
Control unit	Fault code	Fault text
N26/16 - Parameterizable special module (PSM) (MPM447) (Vito/Metris 447,V (447))	-	-
N26/15 - Parameterizable special module (PSM) (MPM907) (Sprinter 907)	-	-
PSMParameterizable special module (PSM906) (Sprinter III)	-	-

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
54-2476	REPLACE PARAMETERIZABLE SPECIAL MODULE (PSM)	---		Models 447
54-2315	REPLACE CONTROL UNIT FOR PARAMETERIZABLE SPECIAL MODULE (PSM) (AFTER CHECK)	---		Model 906, 907
54-1011	PERFORM QUICK TEST	---		
54-0650	MAINTAIN ON-BOARD ELECTRICAL SYSTEM VOLTAGE (FOR TESTING AND DIAGNOSIS WORK)	---		
54-0992	CODE CONTROL UNIT (AFTER QUICK TEST)	---		
54-1010	CHECK ELECTRICAL SYSTEM, FINDINGS:.....	---		

WIS-References			
Document number	Title	Note	Allocation
AD00.00-D-2000-04SD	Connect STAR DIAGNOSIS, read out fault memory	Model 906	Remedy
AD00.00-D-2000-06TS	Connect/disconnect diagnostic device	Model 907	Remedy

XENTRY TIPS

AD00.00-S-2000-04E	Connect STAR DIAGNOSIS, read out fault memory	Model 447	Remedy
AR54.21-D-0015TS	SCN coding of control units	Model 907	Remedy
AR54.21-D-0015X	SCN coding of control units	Models 906	Remedy
AR54.21-S-0015E	SCN coding of control units	Model 447	Remedy
AR54.21-D-2001A	Parameterize parameterizable special module (PSM) control unit	Model 906 with code XM0 (Facelift)	Remedy
AR54.21-D-2001H	Parameterize parameterizable special module (PSM) control unit	Model 906 except code XM0 (Facelift)	Remedy
AR54.21-D-2001TS	Parameterize parameterizable special module (PSM) control unit	Model 907	Remedy
AR54.21-S-2001E	Parameterize parameterizable special module (PSM) control unit	Model 447	Remedy
AR54.21-D-2476H	Remove/install parameterizable special module (PSM)	Model 906	Remedy
AR54.21-D-2476TS	Remove/install parameterizable special module (PSM)	Model 907	Remedy
AR54.21-S-2476E	Remove/install parameterizable special module (PSM)	Model 447	Remedy

Validity		
Vehicle	Engine	Transmission
Sprinter 907	*	*
Sprinter III	*	*
V (447)	*	*
Vito/Metris 447	*	*