

Hissing noises and poor engine output when accelerating

Topic number	LI09.41-N-071907
Version	1
Function group	09.41 Charge air pipe/charge air cooling
Date	10-30-2020
Validity	Model 906 with engine 651
Reason for change	Distribution extended
Reason for block	

Complaint:

Hissing noises and poor engine output when accelerating.

Information: The yellow engine diagnosis warning lamp can light up and the fault code P226300 may be current or stored in the CDI control unit.

Cause:

One or more of the mounting screws of the charge-air distributor on the cylinder head could be loose or broken (see picture 01).

Attachments	
File	Description
01.jpg	Missing mounting screw in charge-air distributor.

Remedy:

1. Perform leak test of intake air system using leak tester (A000 588 18 21 00).

Information: If the mounting screw of the charge-air distributor on the cylinder head is found to be loose or broken without performing any testing work, please do not perform the leak test.

Information: To perform the leak test of the intake air system, see the video "AD — Flue gas diagnosis for leakages with UltraTraceUV" in [WIS Service Media](#) under function group 09 via model 906.

To launch [WIS Service Media](#), refer to the document SI00.01-Z-0012A.

- If there is a smoke formation in the area between the charge-air distributor and the cylinder head during the leak test, continue with step 2.

- If there is a smoke formation in other areas or if there is no smoke formation during the leak test, identify the exact cause of the problem and initiate appropriate measures.

2. Remove the charge-air distributor (see AR09.41-D-1310WE for model 906).

3. Check the sealing surface of the charge-air distributor for possible damage from combustion gases.

Information: Replace or reuse the charge-air distributor according to findings.

XENTRY TIPS

4. Check the threaded holes for the charge-air distributor on the cylinder head for debris from the mounting screws (see picture 02).

Information: Only do this if the mounting screws were broken. Any debris from mounting screws (see picture 02) must be properly removed from the threaded holes in the cylinder head.

Note: If any mounting screws are broken, all eight mounting screws must be replaced. The mounting screws with sleeves can be removed from and inserted into the charge-air distributor by hand (see picture 03). They are special stretch bolts. Consequently it is imperative that the screws listed in the parts table are used, otherwise repeat damage can occur.

5. Install the charge-air distributor (see AR09.41-D-1310WE for model 906).

Information: Replace or reuse the charge-air distributor according to the findings of the checks in operation step 3.

Information: When replacing the eight mounting screws, the old mounting screws with sleeves must be removed by hand from the charge-air distributor and the new mounting screws with sleeves must be inserted by hand into the charge-air distributor (see picture 03).

Information: Strictly observe the tightening sequence, torque and tightening angle for the mounting screws of the charge-air distributor on the cylinder head in the relevant WIS documents.

Information: Replace the molded seal for the charge-air distributor on the cylinder head. Additional replacement part scopes, small parts and consumable materials for carrying out this repair work must be replaced according to the information in the repair documents referred to in this document.

6. Connect the diagnostic device (see AD00.00-D-2000-04SD for model 906).

Information: Only do this if the fault code P226300 is current or stored in the CDI control unit. Strict compliance with the operation steps in XENTRY Diagnostics is absolutely essential.

7. Erase the fault memory.

Information: Only do this if the fault code P226300 is current or stored in the CDI control unit.

8. Disconnect the diagnostic device (see AD00.00-D-2000-04SD for model 906).

Information: Only do this if the fault code P226300 is current or stored in the CDI control unit.

Attachments	
File	Description
02.jpg	Mounting screw debris in threaded hole of cylinder head.
03.jpg	Grip the screw head and pull the mounting screw with sleeve in the direction of the arrow out of the charge-air distributor.

Symptoms
Power generation / Engine noise / Noise
Power generation / Engine management / Indicator lamp / Engine diagnosis / lit

XENTRY TIPS

Power generation / Engine management / Indicator lamp / Electronic diesel control / lit
Power generation / Engine management / Engine performance / No/poor output
Power generation / Engine management / Function / Malfunction

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A 000 990 92 26			Mounting bolt	8	Information: Only in case of broken mounting screws fastening the charge-air distributor to the cylinder head. If a mounting screw is found to be broken, always replace all eight mounting screws.	X

Operation numbers/damage codes					
Op. no.	Operation text	Time	Damage code	Note	
07-0651	CHECK CHARGE AIR SYSTEM FOR LEAKS	-		Model 906. Information: Only if a loose or broken mounting screw fastening the charge-air distributor to the cylinder head cannot be found without testing work.	
14-2030	REMOVE/INSTALL CHARGE-AIR DISTRIBUTOR	-		Model 906. Information: Only in the case of leakage between the charge-air distributor and the cylinder head.	
14-2042	REMOVE/INSTALL CHARGE-AIR DISTRIBUTION PIPE (1), VEH. WITH EURO 3	-		Model 906. Information: Only in the case of leakage between the charge-air distributor and the cylinder head.	
14-2031	REPLACE ONE CHARGE-AIR DISTRIBUTOR	-		Model 900, 906. Information: Only in the case of damage by combustion gases.	
54-1011	PERFORM QUICK TEST	-		Model 906. Information: Only if fault code P226300 is current or stored in the CDI control unit.	
			14005 38	Intake manifold stud bolt/bolt/nut - loose Information: Only in case of loose mounting screws fastening the charge-air distributor to the cylinder head. The listed damage code is not to be considered as an acceptance of costs. The general guidelines in the Warranty Manual apply.	

XENTRY TIPS

			14005 06	Intake manifold stud bolt/bolt/nut - broken Information: Only in case of broken mounting screws fastening the charge-air distributor to the cylinder head. The listed damage code is not to be considered as an acceptance of costs. The general guidelines in the Warranty Manual apply.
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WIS-References

Document number	Title	Note	Allocation
AD00.00-D-2000-04SD	Connect STAR DIAGNOSIS, read out fault memory	Model 906.	Remedy
AR09.41-D-1310WE	Remove/install charge-air distribution pipe	Model 906.	Remedy
SI00.01-Z-0012A	Service Information: WIS Service Media	All models.	Remedy
WS09.00-P-0028B	000 588 18 21 00 Leak tester	All engines.	Remedy

Validity

Vehicle	Engine	Transmission
Sprinter III	651	*

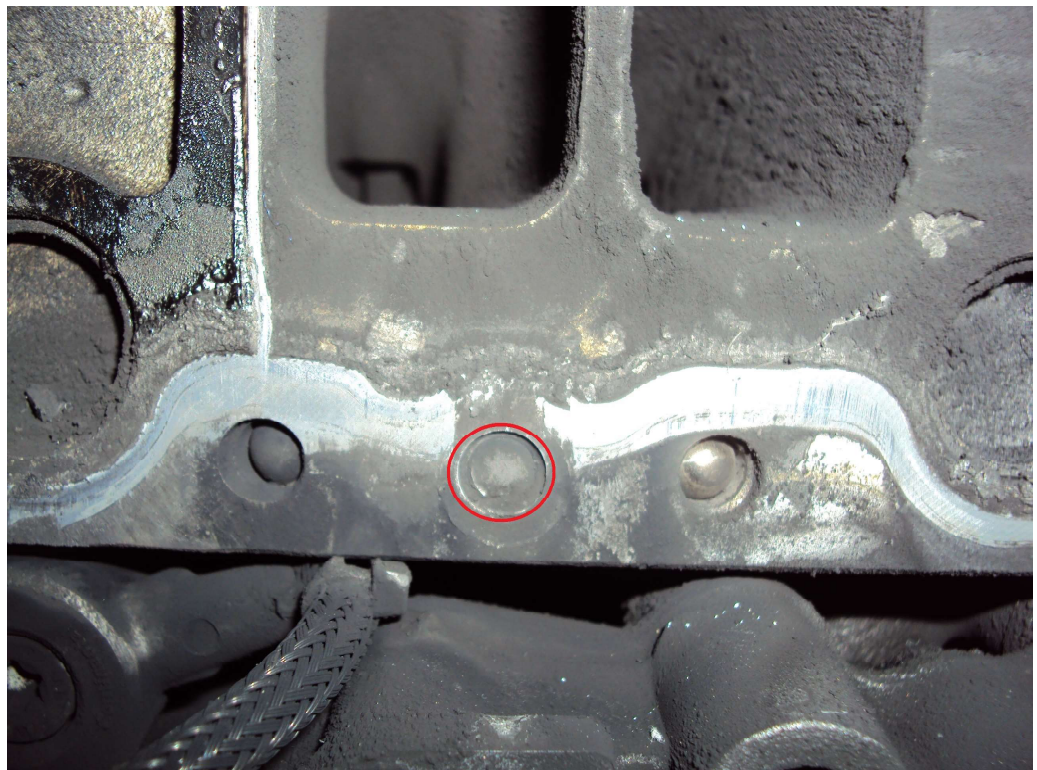
Attachments

XENTRY TIPS

01.jpg:



02.jpg:



XENTRY TIPS

03.jpg:

