

Yellow engine diagnosis warning lamp lights up and fault code P045500 is current and/or stored in ME-SFI control unit (N3/34)

Topic number	LI47.30-N-066014
Version	2
Function group	47.30 Fuel evaporation control system
Date	04-06-2018
Validity	Model 447.6/7## with engine 274 and with code MH6 (Low-emission engine LEV III ULEV70)
Reason for change	To update document with Remedy step 8. which includes a newly released purge valve.
Reason for block	

Complaint:

Yellow engine diagnosis warning lamp (CEL) lights up and fault code P045500 is current and/or stored in ME-SFI control unit (N3/34).

Cause:

Possible causes:

- Fuel filler cap not closed properly.
- Gross leak in the evaporative emission control system.
- A different component in the evaporative emissions control system may need to be replaced.

Remedy:

Note: Before carrying out the repair work, check to ensure the fuel filler cap was properly closed in the fuel filler neck.

If the complaint was caused by in improperly closing fuel filler cap, a quick test log must be created and any existing fault codes erased. Further measures are not necessary. Repair or diagnostic work resulting from an improperly closed fuel filler cap must not be invoiced under warranty.

Information: If the fuel filler cap was not properly closed, any air entering the fuel tank by this route is detected as a leak. In this case the lighting of the yellow engine diagnosis warning lamp in combination with the fault code P045500 corresponds to the vehicle's monitoring function. It is not an indication of a damaged component or incorrect vehicle behavior. Please advise the customer that an improperly closed fuel filler cap will trigger the vehicle's monitoring function.

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Note: If an improperly closed fuel filler cap has been ruled out as the cause of the fault, continue with the procedure below!

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IMPORTANT: Do not replace any components before conducting appropriate steps using XENTRY Diagnostics!!!

1. Connect charger (see AR54.10-S-1127E).
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XENTRY TIPS

2. Connect diagnostic unit (see AD00.00-S-2000-04E).

Information:

Use XENTRY Diagnostics version 12/2016 with all relevant updated addons (in particular addon 7100) or XENTRY Diagnostics version 03/2017 with all relevant updated addons (in particular addon 7101) or a higher XENTRY Diagnostics version.

3. Perform quick test.

4. Read out fault freeze frame data for fault code P045500 from XENTRY Diagnostics and print out or save as a PDF file.

5. Work through guided tests for fault code P045500 with XENTRY Diagnostics.

Information: To do this, select the following menu items in XENTRY Diagnostics:

Control units view → N3/34 - Engine electronics 'MED40' for combustion engine 'M274' (ME-SFI) → Tests

Note: Strict compliance with the operation steps in XENTRY Diagnostics is absolutely essential.

Note: Components may only be replaced when a "Possible Cause" is provided. Always carry out the guided test in full until it indicates the component to be replaced.

6. Disconnect diagnostic unit.

7. Disconnect charger (see AR54.10-S-1127E).

8. If having performed all test steps above and vehicle is later test driven or returns with the same customer complaint / with fault code P045500 current and/or stored in ME-SFI control unit (N3/34). Then replace the purge valve with the latest version as identified in EPC as (P/N: A 000 476 06 00).

Note: When a component is identified as fault with XENTRY Diagnostics in a warranty case, the part must be sent in through the usual warranty channels together with the printout or PDF file of the fault freeze frame data created earlier.

Information: Refer to the return delivery instructions in the VEGA/GALA system. The procedures from the relevant articles in the Extended Warranty Manual Retail (EWMR) or the Warranty Manual Wholesale (WMW) must be observed.

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

Control unit/fault code		
Control unit	Fault code	Fault text

XENTRY TIPS

N3/34 - Motor electronics 'MED40' for combustion engine 'M274' MED40	P045500	A gross leak in the evaporative emission control system was detected. _
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Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A 000 476 06 00			Purge Valve	001	Newly released Purge valve. Item no. 50 in EPC under group 47.075	X

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
54-1011	PERFORM QUICK TEST	---		
07-0641	CHECK ENGINE COMPONENTS: ACCORDING TO FAULT CODE	---		Encode the component identified as the cause of the fault. The listed damage code is not to be considered as an acceptance of costs. The general guidelines in the Warranty Manual apply.
54-0650	MAINTAIN ON-BOARD ELECTRICAL SYSTEM VOLTAGE (FOR TESTING AND DIAGNOSIS WORK)	---		

WIS-References			
Document number	Title	Note	Allocation
AD00.00-S-2000-04E	Connect STAR DIAGNOSIS, read out fault memory		Remedy
AS47.00-Z-0001-01A	Risk of explosion caused by fuel igniting, risk of poisoning caused by inhaling and swallowing fuel as well as risk of injury to eyes and skin caused by contact with fuel.	No fire, sparks, open flames or smoking. Pour fuels only into suitable and appropriately marked containers. Wear protective clothing when handling fuel.	Remedy
AR54.10-S-1127E	Maintain on-board electrical system voltage for testing and diagnosis work on the vehicle		Remedy

Validity		
Vehicle	Engine	Transmission
Vito/Metris 447	<274>	*