

Engine starts with a delay in cold ambient temperatures

Topic number	LI07.16-N-070307
Version	1
Function group	07.16 Diesel injection system common rail
Date	09-24-2019
Validity	Model 906 with engine OM642
Reason for change	
Reason for block	

Complaint:

Engine starts with a delay in cold ambient temperatures.

Cause:

There may be several causes:

- A mix of different glow plugs installed, or incorrect glow plugs installed
- Age and mileage-related wear of component parts of the fuel injection system
- Age and mileage-related wear of the starter
- Reduced starter battery power due to age and mileage
- Abnormal sensor values from temperature sensors, pressure sensors, etc.

Remedy:

If fault codes are stored in the CDI control unit, please process these beforehand !!!

Before creating a PTSS case, please carry out the following test work, attach the results to the PTSS case:

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1. Attach diagnostic device (AD00.00-D-2000-04SD).
2. Perform quick test with diagnostic device and print out the results (AD00.00-D-2000-04SD).
3. CDI -> Actual values -> All actual values -> Inputs - sensors; attach all actual values occurring during the starting procedure.
4. CDI -> Actual values -> Fuel system -> Quantity correction values for smooth running control, read out and attach.
5. CDI -> Actual values -> Fuel system -> Zero quantity calibration -> Zero quantity calibration values for all cylinders, read out and attach.

XENTRY TIPS

6. SAM -> Actual values -> Outside temperature, actual value of outside temperature sensor, attach.
7. Detach diagnostic device (AD00.00-D-2000-04SD).
8. Check battery condition (AR54.10-N-1129-01A).
9. Work through LI15.20-N-057008.

Symptoms
Power generation / Engine management / Engine start/stop / Long starting time

WIS-References			
Document number	Title	Note	Allocation
AD00.00-D-2000-04SD	Attach diagnostic device		Remedy
AD00.00-D-2000-04SD	Perform a quick test with the diagnostic device and print out the results		Remedy
AR54.10-N-1129-01A	Check battery condition		Remedy
AD00.00-D-2000-04SD	Detach the diagnostic device		Remedy

Validity		
Vehicle	Engine	Transmission
Sprinter III	642	*