
Engine in limp-home mode, FC123900

Topic number	LI09.00-N-054723
Version	3
Design group	09.00 General
Date	07-01-2013
Validity	OM642 in MODEL 906
Reason for change	Remedy revised
Reason for block	

Complaint:

Engine in limp-home mode

Fault 123900 set in CDI control unit.

Rpm limited to 75% after engine restart.

Cause:

A) Fault thresholds in engine software too low

B) Leakage in air system (intake/exhaust side)

C) High exhaust backpressure

Remedy:

A) Install current engine control unit (CDI) software. (DAS version 03/2013 or higher)

B) If CDI control unit has latest software - check charge air system for leaks (CDI6 common rail - List of all guided tests - Check charge air system for leaks)

(See also SDmedia "AR Check charge air system for leaks")

C) If there are no leaks in the charge air and exhaust systems - check / verify exhaust back pressure

- Should the problem re-occur after the above remedies are applied please create a PTSS case and attach the following documents:

1. Quick Test
2. CDI6 control unit log
3. Performance data
4. Engine repair history (with part numbers and exchange dates)
5. Customer statement on occurrence of problem

Symptoms

Power generation / Engine management / Engine performance / Goes into limp-home mode

Power generation / Engine management / Engine performance / No/poor output

Power generation / Engine management / Engine performance / Poor acceleration

Control unit/fault code

Control unit	Fault code	Fault text
CDI6Common Rail Diesel Injection (CR6NFZ)	123900	Charge pressure is too low.

Work units

Op. no.	Operation text	Time	Damage code	Note
54-1011	PERFORM QUICK TEST			
07-0651	CHECK CHARGE AIR SYSTEM FOR LEAKS			

Validity

Vehicle	Engine	Transmission
Sprinter III	642	*