Check engine light on and fault codes P3005A9, P3005FF, P30074B in CDI Control Unit

Topic number	LI09.40-N-070781
Version	1
Function group	09.40 Turbocharger
Date	01-21-2020
Validity	907 with OM642, vehicle manufacturing date up to and including 15.11.2018
Reason for change	Cleanpoint, additional example image and further relevant countries added.
Reason for block	

Complaint:

Engine switches to limp-home mode and has insufficient output.

Engine indicator lamp lights up and fault codes P3005A9, P3005FF, P30074B in engine control unit.

Cause:

Control rod of boost pressure regulator chafes on heat shield of exhaust gas turbocharger.

Attachments	
File	Description
Turbolader.jpg	Example picture
Turbolader2.JPG	Example, Figure 2

Remedy:

Installation of a new exhaust gas turbocharger heat shield A 642 096 1968.

NOTE:

New exhaust gas turbocharger heat shield intalled at factory as of 09.02.2019

Symptoms
Power generation / Engine management / Indicator lamp / Engine diagnosis / lit
Power generation / Engine management / Engine performance / No/poor output

Control unit/fault code		
Control unit	Fault code	Fault text
N3/28 - Motor electronics 'CDI61NFZ' for combustion engine 'OM642' CR61NFZ	P3005A9	The boost pressure is too high.

N3/28 - Motor electronics 'CDI61NFZ' for combustion engine 'OM642' CR61NFZ	P3005FF	The boost pressure is too high. There is a signal above the permissible limit value.
N3/28 - Motor electronics 'CDI61NFZ' for combustion engine 'OM642' CR61NFZ	P30074B	The boost pressure control flap has a malfunction. The actuator is blocked.

Parts

Part number	ES1	ES2	Designation	Quantity	Note	EPC
A 642 096 19 68			Exhaust gas turbocharger heat shield	1		X

Operation numbers/damage codes

Op. no.	Operation text	Time	Damage code	Note
09-5910	CHECK TURBOCHARGER, FINDINGS: CONTROL ROD OF BOOST PRESSURE REGULATOR CHAFES ON HEAT SHIELD	0.4	09368 22	

Validity

Vehicle	Engine	Transmission
Sprinter 907	642	*

Attachments

Turbolader.jpg:

Turbolader2.JPG: