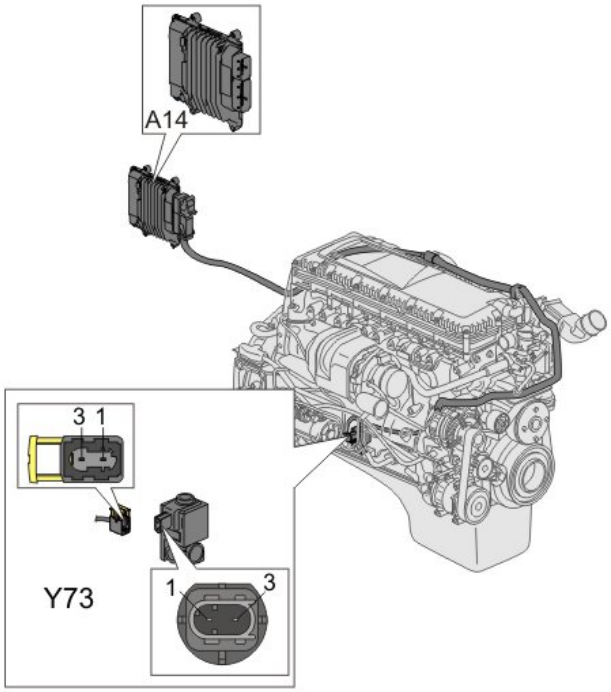
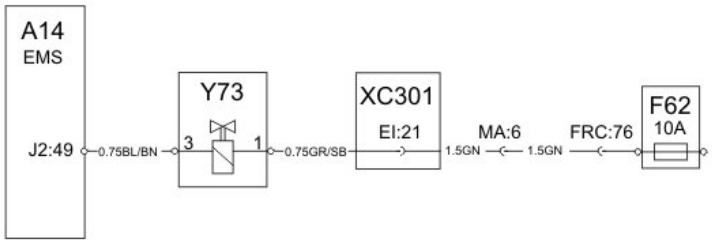
P0245 - Wastegate Short Circuit Low

Y73: Air Valve ON/OFF, Butterfly control	Schematics:
	 F62 - Y73:1, Supply wire. A14.J2:49 - Y73:3, Control wire(-).

Fault type	Condition for Fault	Observable Symptoms	Possible cause
P0245 FTB 00	• Output activated. • Short circuit to ground on A14.J2:48.	• None.	• Control wire. • Air valve unit.

Basic ckeck.

Purpose	Action	Evaluation
Check wiring Harness	• Visually check that wiring harness is not damaged	Oxidation or crystallization can indicate AdBlue solution leakage which means that the wiring harness needs to be replaced.

Connector check.

Purpose	Action	Evaluation
Check connector Y73, A14 J1 — J2.	• Check that the connectors are properly connected and locked into position • Disconnect and check the component connector • Inspect pins and terminals for oxidations or corrosion • Ensure that the pins and terminals are locked into the connectors and that they are not pushed back out of the sockets • Check the pins and terminal are not damaged (which can cause poor connection) • Carefully insert the correct test pin from special tool 9990008 and verify that pin connections are in good condition	None

Visual check:

Purpose	Action	Evaluation
Check fuse F62	• Remove the cover over the panel on the dashboard. • Remove the fuse. • Check if the fuse is good.	None

Voltage measurement

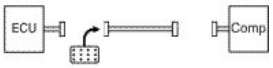


Measuring	Key position	Measurement points		Reference value	Measured value	Other (Special tool No.)
		Breakout box	Wiring diagram			
Open circuit check	On	47 — Engine ground point	Y37:1 – Engine ground point	U = 20 V – 30 V		88890167, 88890074, 9998699



Measuring	Key position	Measurement points		Reference value	Measured value	Other (Special tool No.)
		Breakout box	Wiring diagram			
Open circuit	ON	—	F62 — Ground point	U = 20 V – 30 V		88890074, 9990008

Resistance measurement



Measuring	Key position	Measurement points		Reference value	Measured value	Other (Special tool No.)
		Breakout box	Wiring diagram			
Short circuit to between wires	OFF	C:21 – All pins at connectors A14.J1 and A14.J2	A14.J2:49 – All pins at connectors A14.J1 and A14.J2	R = Open circuit		88890074, 9990062, 9998699, 88890227



Measuring	Key position	Measurement points		Reference value	Measured value	Other (Special tool No.)
		Breakout box	Wiring diagram			
Open circuit	OFF	47 — 21	Y73.Pin 1 — XC301.Pin 21	R = 0 Ω — 10 Ω		88890074, 88890167, 9998699, 88890025
Open circuit	OFF	21 — 24	XC301.Pin 21 — MA.Pin 6	R = 0 Ω — 10 Ω		88890074, 88890167, 9998699, 88890025

Verification:

Purpose:	Conditions:	Evaluation:
Verification.	• Ignition key in OFF position. • Wait 5 seconds. • Ignition key in ON position. • Wait 1 minute(s) and continue verification by reading out fault codes.	• If the fault code is not set during the verification the fault may be corrected. • The status of the diagnostic process in the control unit can not be tested without communication with the vehicle. • The fault code may appear later when the vehicle has been returned to service.