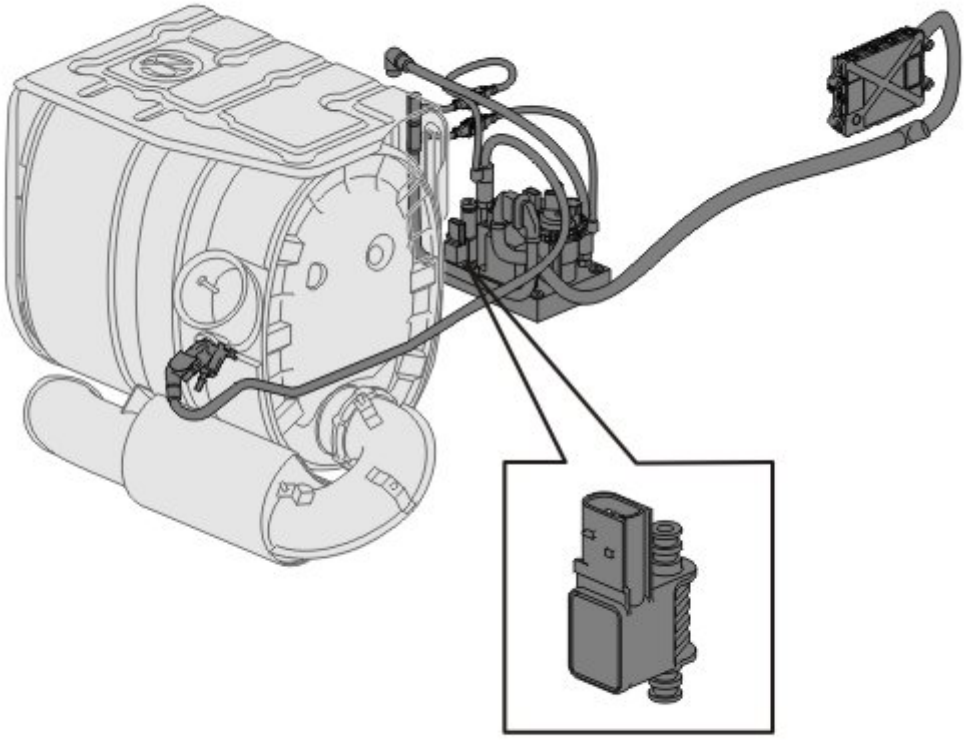
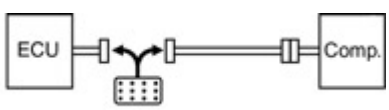


Fault type	Condition for Fault	Observable Symptoms	Possible cause
P2039 FTB 00	• The voltage at pin A174.A:47 is less than 0.15 V.	• Uncontrolled air consumption.	• Short circuit to ground. • Connector. • Wiring harness. • Aftertreatment Control Module (ACM).

Voltage measurement



Measuring	Key position	Measurement points		Reference value	Measured value	Other (Special tool No.)
		Breakout box	Wiring diagram			
Supply voltage check	On	47 – 49	B06:1 – B06:3	U = 4.75 V – 5.25 V		9998699, 88890167, 88890074
Signal voltage check	On	48 — 49	B06:2 – B06:3	U = 0.3 V – 4.7 V (Engine not running)		9998699, 88890167, 88890074



Measuring	Key position	Measurement points		Reference value	Measured value	Other (Special tool No.)
		Breakout box	Wiring diagram			
Supply voltage check	On	51 – 54	A174.A:51 – A174.A:54	U = 4.75 V – 5.25 V		9998699, 9990014, 88890074
Signal voltage check	On	47 – 54	A174.A:47 – A174.A:54	U = 0.3 V – 4.7 V (Engine not running)		9998699, 9990014, 88890074

Resistance Measurement:



Measuring	Key position	Measurement points		Reference value	Measured value	Other (Special tool No.)
		Breakout box	Wiring diagram			
Short Circuit / Open Circuit	Off	47 – 51, 48 – 47, 49 – 54	B06:1 – A174.A:51, B06:2 – A174.A:47, B06:3 – A174.A:54	R = <10 Ω		9998699, 9990014, 88890167, 88890074