

FAILURE CODE [CA559]

Action level	Failure code	Failure	Common Rail Pressure Low Error 1 (Engine controller system)
L01	CA559		
Details of failure	No-pressure error (level 1) is detected in supply pump.		
Action of controller	<ul style="list-style-type: none">• Engine power deration.• Close EGR valve.• Stop regeneration control.		
Phenomenon on machine	Engine power deration		
Related information	<ul style="list-style-type: none">• Common rail pressure in common rail pressure sensor can be checked by monitoring function. (Code: 36400 (MPa))• Engine power deration is canceled by turning starting switch to OFF position after this failure code is cleared (note the engine power deration is not canceled right after failure code is cleared).• After repairing, check if the failure code is cleared by the following procedure. Procedure: Start engine.		

No.	Cause	Procedure, measuring location, criteria and remarks
1	Non-fuel	Check the remaining quantity of fuel
2	Defective fuel tank breather	Fuel tank breather may be clogged. Check it directly
3	Fuel leakage to outside	Fuel may be leaking to outside. Check it directly (Check visually while running engine at low idle)

No.	Cause	Procedure, measuring location, criteria and remarks		
4	Defective low-pressure circuit component	<ul style="list-style-type: none"> For check of pressure in fuel low pressure circuit, see TESTING AND ADJUSTING, "TEST FUEL PRESSURE". Measure at fuel filter inlet side. Cranking speed: Min. 150 rpm 		
		Pressure of fuel low pressure circuit	At cranking	Min. 0.105 MPa {Min. 1.07 kgf/cm ² }
		<ul style="list-style-type: none"> For check of pressure in fuel low pressure circuit, see TESTING AND ADJUSTING, "TEST FUEL PRESSURE". Measured at fuel filter outlet side. 		
		Pressure of fuel low pressure circuit	At high idle	Min. 0.48 MPa {Min. 4.9 kgf/cm ² }
		<ul style="list-style-type: none"> For check of pressure in fuel low pressure circuit, see TESTING AND ADJUSTING, "TEST FUEL PRESSURE". Measured at fuel filter inlet and outlet sides. Pressure drop in fuel low-pressure circuit = Fuel filter inlet pressure - Fuel filter outlet pressure 		
		Pressure drop in fuel low-pressure circuit	At high idle	Max. 0.08 MPa {Max. 0.8 kgf/cm ² }
		<ul style="list-style-type: none"> For check of pressure in fuel low pressure circuit, see TESTING AND ADJUSTING, "TEST FUEL PRESSURE". Measure at gear pump fuel inlet side of supply pump. 		
		Fuel suction circuit pressure (gear pump side)	At high idle	Min. -33.9 kPa {Min. -254 mmHg}
		<ul style="list-style-type: none"> For check of pressure in fuel low pressure circuit, see TESTING AND ADJUSTING, "TEST FUEL PRESSURE". Measure at fuel connector side. 		
		Fuel suction circuit pressure (fuel connector side)	At high idle	Min. -27.1 kPa {Min. -203 mmHg}