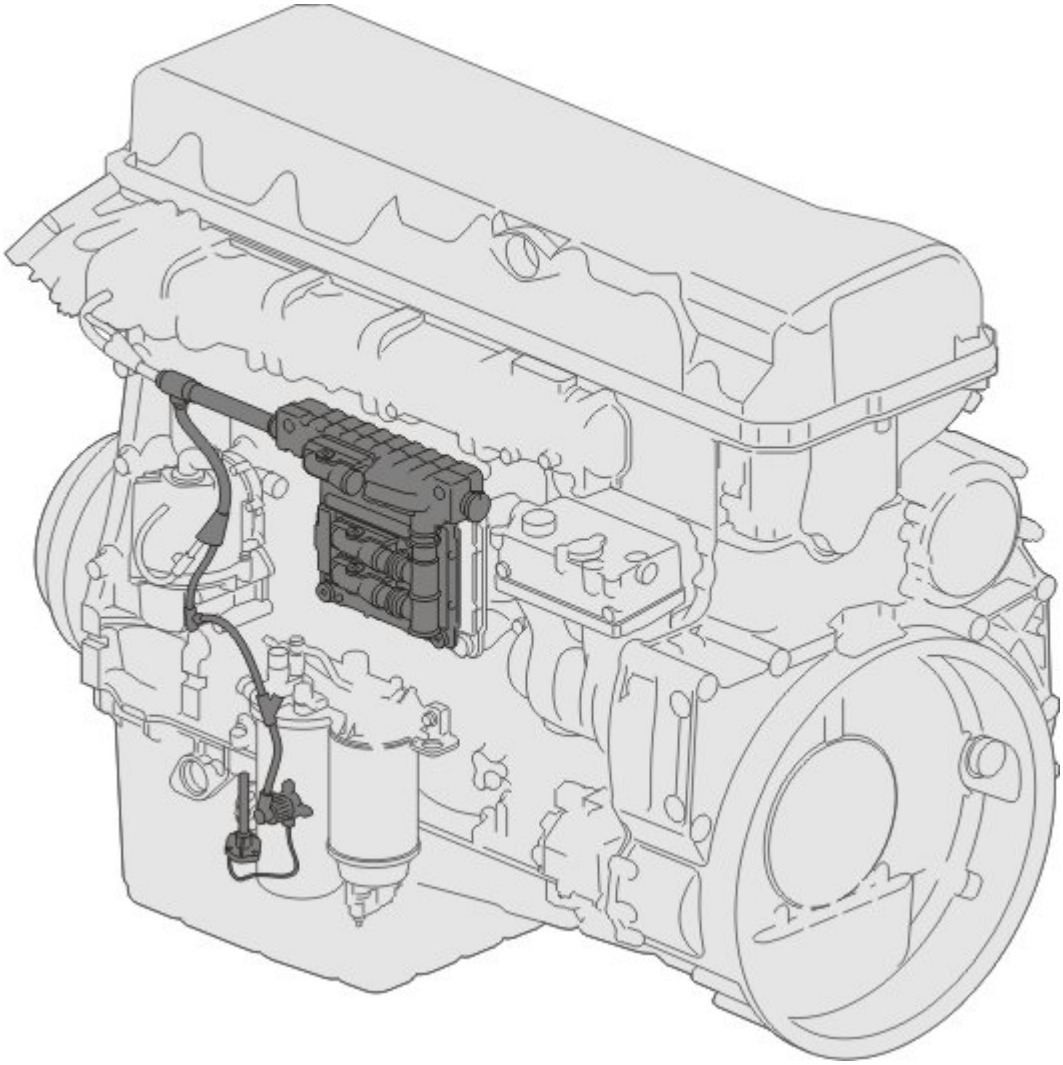
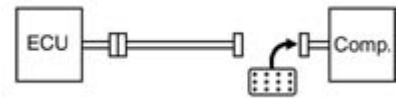
P0298 - Engine Oil Over Temperature



Fault type	Condition for Fault	Observable Symptoms	Possible cause
P0298 FTB00	• Temperature too high.	• Info lamp lights up if the temperature is moderately above range. • Red lamp lights up if the temperature is critically above range. • A buzzer sounds if the temperature is critically above range. • Engine deride.	• Extreme driving conditions. • Engine fan. • Oil thermostat. • Cooling system. • Clogged oil cooler. • Oil level and temperature sensor.

Resistance measurement



Measuring	Key position	Measurement points		Reference value	Measured value	Other (Special tool No.)
		Breakout box	Wiring diagram			
Component Resistance	Off	1– 2	S68:1– S68:2	R = 0Ω when the float is at the lower end position and infinite when the float is at the upper end		9990008, 88890074
Component Resistance	Off	1– 2	B21:1– B21:2	Reference Table 1		9990216, 88890074
Component Resistance	Off	3– 4	B119:3– B119:4	Reference Table 2		88890039, 88890074

Reference Table 1 :

[°F]	[°C]	MIN > [Ω]	R [Ω]	MAX < [Ω]
-40	-40	38,313	45,313	52,926
-22	-30	22,307	26,114	30,194
-4	-20	13,402	15,462	17,718
14	-10	8,244	9,397	10,661
32	0	5,227	5,896	6,623
50	10	3,390	3,792	4,217
68	20	2,262	2,500	2,760
77	25	1,870	2,057	2,260
86	30	1,553	1,707	1,866
104	40	1,080	1,175	1,277
122	50	771	834	900
140	60	555	596	639
158	70	408	435	465
176	80	304	323	342
194	90	230	243	257
212	100	178	186	196
230	110	136	144	152
248	120	106	113	119
266	130	84	89	95
284	140	67	71	76

Reference Table 2:

[°F]	[°C]	MIN > [Ω]	R [Ω]	MAX < [Ω]
-58	-50	89496,5	105290,0	121083,5
-49	-45	63169,4	73796,0	84422,6
-40	-40	45163,6	52394,0	59624,4
-31	-35	32656,4	37666,0	42675,6
-22	-30	23871,0	27375,0	30879,0
-13	-25	17649,6	20125,0	22600,4
-4	-20	13181,5	14945,0	16708,5
5	-15	9927,6	11205,0	12482,4
14	-10	7555,7	8480,0	9404,3
23	-5	5792,4	6472,0	7151,6
32	0	4477,9	4981,0	5484,1
41	5	3494,6	3870,0	4245,4
50	10	2747,3	3029,0	3310,7
59	15	2178,2	2391,0	2603,8
68	20	1736,6	1900,0	2063,4
77	25	1393,8	1520,0	1646,2
86	30	1127,3	1224,0	1320,7
95	35	916,9	992,3	1067,7
104	40	750,0	809,1	868,2
113	45	617,1	663,5	709,9
122	50	510,4	547,0	583,6
131	55	424,4	453,4	482,4
140	60	354,5	377,9	401,3
149	65	297,8	316,5	335,2
158	70	251,6	266,5	281,4
167	75	213,1	225,3	237,5
176	80	181,4	191,2	201,0
185	85	155,1	163,1	171,1
194	90	133,1	139,7	146,3
203	95	114,7	120,1	125,5
212	100	99,2	103,6	108,0
221	105	86,2	89,0	93,4
230	110	75,0	78,0	81,0
239	115	65,6	68,1	70,6
248	120	57,6	59,6	61,6
257	125	50,6	52,3	54,0
266	130	44,7	46,1	47,5
275	135	39,4	40,7	42,0
284	140	34,8	36,0	37,2
293	145	30,8	32,0	33,2
302	150	27,4	28,5	29,6

Visual check:

- Check the oil level by using dipstick.
- Check the oil for external leakage.
- Check that the coolant temperature is within normal operating range.
- Check radiator and hoses for leakage.
- Check the Cylinder head gasket, cylinder liner, oil cooler for leakage and do the pressure test of cylinder head.
- Check the Injector sleeve for cracks and damages, If found carbon mono oxide indication in the fuel.
- Check the condition of the fan and fan belt.
- Check the radiator and charge air cooler free from residue.
- Check the coolant thermostat and pump for proper functioning.
- Check the oil thermostat for proper functioning.
- Check that the by-pass valve is free from faults and has a purple colour marking.
- Check that there is no fuel leakage into the engine oil from the fuel system.
- Check for leakage at the attachment point of the unit injector.
- Do the Pressure test of fuel system.