DTC P033629, P261937, P034A30, P261738, P261836, P034A31, P033531

1. DTC Description

DTC	Description	Faulty Area
P033629	DFC for Crankshaft Signal Diagnose - Disturbed Signal	 ECU Wiring harness and connector Crankshaft speed sensor
P261937	CrS Signal Frequency Higher than Threshold	
P034A30	At the Expected Position the Gap was not Detected Again	
P261738	Dynamic Timeout of Two Consecutive Tooth Periods	
P261836	CrS Signal Below Speed Threshold	
P034A31	No Gap could be Detected in the Signal	
P033531	DFC for Crankshaft Signal Diagnose - No Signal	

2. Diagnosis Procedure

Test Conditions	Details/Results/Actions
1. General inspection	
	A. Inspect ECU wiring harness connector E24 for looseness, aging and poor contact, etc.
	B. Inspect crankshaft speed sensor wiring harness connector E04 for looseness, aging and poor contact, etc.
	Is it normal?
	Yes
	Go to step 2.
	No
	Repair the faulty area.



Test Conditions	Details/Results/Actions	
4. Inspect for internal short circuit in wiring harness		
	A. Turn the ignition switch to "LOCK" position.	
	B. Disconnect the ECU wiring harness connector E24.	
	C. Disconnect the crankshaft speed sensor wiring harness connector E04.	
	D. Measure resistance between terminals 1 and 2 of crankshaft speed sensor wiring harness connector E04 with a multimeter.	
	Standard resistance: 10 $M\Omega$ or more	
	Is resistance normal?	
	Yes	
	Go to step 5.	
	No	
	Inspect the crankshaft speed sensor wiring harness circuit.	
5. Inspect resistance		
	A. Turn the ignition switch to "LOCK" position.	
	B. Disconnect the crankshaft speed sensor wiring harness connector E04.	
	C. Measure resistance between terminals 1 and 2 of crankshaft speed sensor with a multimeter.	
	Standard resistance: 850 ~ 950 Ω at 20°C	
	Is resistance normal?	
	Yes	
	Go to step 6.	
	No	
	Replace the crankshaft speed sensor.	

