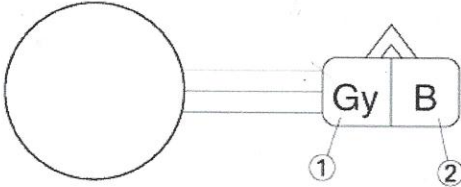



# FUEL INJECTION SYSTEM

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Fault code No.	12	Symptom	No normal signals are received from the crankshaft position sensor.	
Used diagnostic code No. --				
Order	Inspection operation item and probable cause	Operation item and countermeasure	Reinstatement method	
1	Installed condition of sensor	Check the installed area for looseness or pinching.	Reinstated by cranking the engine.	
2	Connected condition of connector Inspect the coupler for any pins that may have pulled out. Check the locking condition of the coupler.	If there is a malfunction, repair it and connect it securely. Crankshaft position sensor coupler Main wiring harness ECU coupler		
3	Open or short circuit in wiring harness.	Repair or replace if there is an open or short circuit between the main wiring harnesses. Between sensor coupler and ECU coupler Gray – Gray Black/Blue – Black/Blue		
4	Defective crankshaft position sensor.	<p>Replace if defective.</p> <p>1. Disconnect the crankshaft position sensor coupler from the wire harness.</p> <p>2. Connect the pocket tester (<math>\Omega \times 100</math>) to the crankshaft position sensor coupler as shown.</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>Tester positive probe → gray ①</p> <p>Tester negative probe → black ②</p>  </div> <p>3. Measure the crankshaft position sensor resistance.</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;">  <p><b>Crankshaft position sensor resistance</b> 445 ~ 545 <math>\Omega</math> at 20°C (68°F) (between gray and black)</p> </div> <p>4. Is the crankshaft position sensor OK?</p>		