28.Engine Noise A: INSPECTION

Type of sound	Condition	Possible cause	
Regular clicking sound	Sound increases as engine speed increases.	 Valve mechanism is defective. Incorrect valve clearance Worn valve rocker Worn camshaft Broken valve spring 	
Heavy and dull clank	Oil pressure is low.	Worn camshaft main bearingWorn connecting rod bearing (large end)	
	Oil pressure is normal.	Damaged engine mounting	
High-pitched clank (Spark knock)	Sound is noticeable when accelerating with an overload condition.	 Ignition timing advanced Accumulation of carbon inside combustion chamber Wrong spark plug Improper gasoline 	
Clank when engine speed is 1,000 to 2,000 rpm	Sound is reduced when fuel injector connector of noisy cyl- inder is disconnected. (NOTE*)	 Worn camshaft main bearing Worn bearing at crankshaft end of connecting rod 	
Knocking sound when engine is operating under idling speed	Sound is reduced when fuel injector connector of noisy cyl- inder is disconnected. (NOTE*)	 Worn cylinder liner and piston ring Broken or stuck piston ring Worn piston pin and hole at piston end of connecting rod 	
and engine is warm	Sound is not reduced if each fuel injector connector is dis- connected in turn. (NOTE*)	 Worn cam sprocket Worn camshaft journal bore in cylinder head assembly 	
Squeaky sound	—	Insufficient generator lubrication	
Rubbing sound	—	Poor contact of generator brush and rotor	
Gear scream when starting engine	—	 Defective ignition starter switch Worn gear and starter pinion 	
Sound like polishing glass with a dry cloth	—	Loose drive beltDefective water pump shaft	
Hissing sound	_	 Insufficient compression Air leakage in air intake system, hose, connection or manifold 	
Timing belt noise	_	 Loose timing belt Belt contacting with case/adjacent part 	
Valve noise	—	Incorrect valve clearance	

NOTE*)

When disconnecting the fuel injector connector, the malfunction indicator light illuminates and DTC is stored in ECM memory. Therefore, perform the Clear Memory Mode <Ref. to EN(H4SO)(diag)-43, OPERATION, Clear Memory Mode.> and Inspection Mode <Ref. to EN(H4SO)(diag)-34, PROCEDURE, Inspection Mode.> after connecting the fuel injector connector.

EXHAUST

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