# 17.Diagnostics for Engine Starting Failure A: PROCEDURE

1. Check of the fuel amount.				
$\downarrow$				
2. Inspection of starter motor circuit. <ref. circuit,="" diagnostics="" en(h4so)(diag)-54,="" engine="" for="" motor="" starter="" starting<="" td="" to=""></ref.>				
$\checkmark$				
<ol><li>Inspection of ECM power supply and ground line. <ref. and="" check="" en(h4so)(diag)-57,="" ground<br="" power="" supply="" to="">LINE OF ENGINE CONTROL MODULE (ECM), Diagnostics for Engine Starting Failure.&gt;</ref.></li></ol>				
$\downarrow$				
<ol> <li>Inspection of ignition control system. <ref. control="" diagnostics="" en(h4so)(diag)-59,="" engine<br="" for="" ignition="" system,="" to="">Starting Failure.&gt;</ref.></li> </ol>				
$\downarrow$				
5. Inspection of fuel pump circuit. < Ref. to EN(H4SO)(diag)-62, FUEL PUMP CIRCUIT, Diagnostics for Engine Starting Failure.>				
$\downarrow$				
6. Inspection of fuel indicator circuit. <ref. circuit,="" diagnostics="" en(h4so)(diag)-65,="" engine="" failure.="" for="" fuel="" injector="" starting="" to=""></ref.>				

ENGINE (DIAGNOSTICS)

#### **B: STARTER MOTOR CIRCUIT**

#### CAUTION:

After repairing or replacing the defective part, perform the Clear Memory Mode <Ref. to EN(H4SO)(diag)-44, OPERATION, Clear Memory Mode.> and Inspection Mode <Ref. to EN(H4SO)(diag)-35, PRO-CEDURE, Inspection Mode.>.

WIRING DIAGRAM:



EN-04767

	Step	Check	Yes	No
1	CHECK BATTERY. Check the battery voltage.	Is the voltage 12 V or more?	Go to step 2.	Charge or replace the battery.
2	CHECK OPERATION OF STARTER MOTOR. NOTE: Check the security alarm is not sounding. (mod- el with security alarm)	Does the starter motor oper- ate?	Go to step <b>3</b> .	Go to step 4.
3	CHECK DTC.	Is DTC displayed? <ref. to<br="">EN(H4SO)(diag)-34, OPERA- TION, Read Diagnostic Trouble Code (DTC).&gt;</ref.>	Check the appro- priate DTC using the List of Diagnos- tic Trouble Code (DTC). <ref. to<br="">EN(H4SO)(diag)- 67, List of Diagnos- tic Trouble Code (DTC).&gt;</ref.>	Repair poor con- tact in ECM con- nector.
4	<ul> <li>CHECK INPUT SIGNAL FOR STARTER MOTOR.</li> <li>1) Turn the ignition switch to OFF.</li> <li>2) Disconnect the connector from starter motor.</li> <li>3) Turn the ignition switch to ST.</li> <li>4) Measure the power supply voltage between starter motor connector terminal and engine ground.</li> <li>Connector &amp; terminal (B14) No. 1 (+) — Engine ground (-):</li> <li>NOTE:</li> <li>For AT model, place the select lever in "P" or "N" range.</li> <li>For MT model, depress the clutch pedal.</li> </ul>	Is the voltage 10 V or more?	Check the starter motor. <ref. sc<br="" to="">(H4SO)-6, Starter.&gt;</ref.>	Go to step 5.
5	<ul> <li>CHECK HARNESS BETWEEN BATTERY AND IGNITION SWITCH CONNECTOR.</li> <li>1) Disconnect the connector from ignition switch.</li> <li>2) Measure the power supply voltage between ignition switch connector and chassis ground.</li> <li>Connector &amp; terminal (B72) No. 1 (+) — Chassis ground (-):</li> </ul>	Is the voltage 10 V or more?	Go to step <b>6</b> .	Repair the open circuit of harness between ignition switch and battery, and check fuse SBF No. 4 and SBF No. 1.
6	<ul> <li>CHECK IGNITION SWITCH.</li> <li>1) Disconnect the connector from ignition switch.</li> <li>2) Measure the resistance between ignition switch terminals after turning the ignition switch to "ST" position.</li> <li>Terminals</li> <li>No. 1 - No. 3:</li> </ul>	Is the resistance less than 5 $\Omega$ ?	Go to step 7.	Replace the igni- tion switch.
7	CHECK TRANSMISSION TYPE.	Is the transmission type AT?	Go to step 8.	Go to step 12.
8	CHECK INPUT VOLTAGE OF STARTER IN- TERLOCK RELAY. 1) Turn the ignition switch to OFF. 2) Disconnect the connector from starter inter- lock relay. 3) Connect the connector to ignition switch. 4) Measure the input voltage between starter interlock relay connector and chassis ground after turning the ignition switch to ST. Connector & terminal (B225) No. 26 (+) — Chassis ground (-): (B225) No. 28 (+) — Chassis ground (-):	Is the voltage 10 V or more?	Go to step 9.	Repair open or short circuit to ground in harness between starter interlock relay and ignition switch. NOTE: Check security system (if equipped). <ref. to<br="">SL-21, Security System.&gt;</ref.>

ENGINE (DIAGNOSTICS)

	Sten	Check	Vec	No
٩		ls the resistance less than 1 02	Go to step 10	Replace the starter
3	<ol> <li>Connect the battery to starter interlock relay terminals No. 26 and No. 24.</li> <li>Measure the resistance between starter interlock relay terminals.</li> <li>Terminals No. 27 — No. 28:</li> </ol>			interlock relay.
10	<ul> <li>CHECK INPUT VOLTAGE OF INHIBITOR SWITCH.</li> <li>1) Turn the ignition switch to OFF.</li> <li>2) Disconnect the connector from inhibitor switch.</li> <li>3) Connect the connector to the ignition switch.</li> <li>4) Measure the input voltage between inhibitor switch connector terminal and engine ground while turning the ignition switch to ST.</li> <li>Connector &amp; terminal (B12) No. 12 (+) — Engine ground (-):</li> </ul>	Is the voltage 10 V or more?	Go to step 11.	Repair open or ground short circuit in harness between inhibitor switch and starter interlock relay. NOTE: Check security system (if equipped). <ref. to<br="">SL-21, Security System.&gt;</ref.>
11	<ul> <li>CHECK INHIBITOR SWITCH.</li> <li>1) Place the select lever in "P" or "N" range.</li> <li>2) Measure the resistance between inhibitor switch terminals.</li> <li>Connector &amp; terminal (T3) No. 11 — No. 12:</li> </ul>	Is the resistance less than 1 $\Omega$ ?	Repair open or ground short circuit in harness between inhibitor switch and starter motor.	Replace the inhibi- tor switch. <ref. to<br="">4AT-47, Inhibitor Switch.&gt;</ref.>
12	<ul> <li>CHECK INPUT VOLTAGE OF STARTER IN- TERLOCK RELAY.</li> <li>1) Turn the ignition switch to OFF.</li> <li>2) Disconnect the connector from starter inter- lock relay.</li> <li>3) Connect the connector to ignition switch.</li> <li>4) Measure the input voltage between starter interlock relay connector and chassis ground after turning the ignition switch to ST.</li> <li>Connector &amp; terminal (B225) No. 26 (+) — Chassis ground (-): (B225) No. 28 (+) — Chassis ground (-):</li> </ul>	Is the voltage 10 V or more?	Go to step <b>13</b> .	Repair open or short circuit to ground in harness between starter interlock relay and ignition switch. NOTE: Check security system (if equipped). <ref. to<br="">SL-21, Security System.&gt;</ref.>
13	<ul> <li>CHECK STARTER INTERLOCK RELAY.</li> <li>1) Connect the battery to starter interlock relay terminals No. 26 and No. 24.</li> <li>2) Measure the resistance between starter interlock relay terminals.</li> <li>Terminals</li> <li>No. 27 — No. 28:</li> </ul>	Is the resistance less than 1 $\Omega$ ?	Go to step 14.	Replace the starter interlock relay.
14	<ul> <li>CHECK GROUND CIRCUIT OF CLUTCH SWITCH.</li> <li>1) Disconnect the connector from clutch switch.</li> <li>2) Measure the resistance between the clutch switch connector and chassis ground.</li> <li>Connector &amp; terminal (B106) No. 1 — Chassis ground:</li> </ul>	Is the resistance less than 1 $\Omega$ ?	Go to step 15.	Repair the open circuit of ground cable.
15	CHECK CLUTCH SWITCH. Measure the resistance between clutch switch terminals while depressing the clutch pedal. <i>Terminals</i> <i>No. 1 — No. 2:</i>	Is the resistance less than 1 $\Omega$ ?	Go to step <b>16</b> .	Replace the clutch switch. <ref. to<br="">CL-28, Clutch Switch.&gt;</ref.>
16	CHECK CLUTCH SWITCH CIRCUIT. 1) Connect the connector to the clutch switch. 2) Measure the resistance between starter interlock relay connector and chassis ground while depressing the clutch pedal. Connector & terminal (B225) No. 24 — Chassis ground:	Is the resistance less than 1 $\Omega$ ?	Repair the ground short of the har- ness between starter interlock relay and starter motor.	Repair the open circuit in harness between starter interlock relay and clutch switch.

#### C: CHECK POWER SUPPLY AND GROUND LINE OF ENGINE CONTROL MOD-ULE (ECM)

CAUTION:

After repairing or replacing the defective part, perform the Clear Memory Mode <Ref. to EN(H4SO)(diag)-44, OPERATION, Clear Memory Mode.> and Inspection Mode <Ref. to EN(H4SO)(diag)-35, PRO-CEDURE, Inspection Mode.>.





#### ENGINE (DIAGNOSTICS)

	Step	Check	Yes	No
1	<ul> <li>CHECK MAIN RELAY.</li> <li>1) Turn the ignition switch to OFF.</li> <li>2) Remove the main relay.</li> <li>3) Connect the battery to main relay terminals No. 1 and No. 2.</li> <li>4) Measure the resistance between main relay terminals.</li> <li>Terminals.</li> <li>No. 3 - No. 5: No. 4 - No. 6:</li> </ul>	Is the resistance less than 10 Ω?	Go to step 2.	Replace the main relay.
2	<ul> <li>CHECK GROUND CIRCUIT FOR ECM.</li> <li>1) Disconnect the connectors from ECM.</li> <li>2) Measure the resistance of harness between ECM and chassis ground.</li> <li><i>Connector &amp; terminal</i> <ul> <li>(B134) No. 5 — Chassis ground:</li> <li>(B137) No. 1 — Chassis ground:</li> <li>(B137) No. 2 — Chassis ground:</li> <li>(B137) No. 3 — Chassis ground:</li> <li>(B137) No. 7 — Chassis ground:</li> </ul> </li> </ul>	Is the resistance less than 5 $\Omega$ ?	Go to step 3.	Repair the open circuit of harness between ECM con- nector and engine grounding termi- nal.
3	CHECK INPUT VOLTAGE OF ECM. Measure the voltage between ECM connector and chassis ground. Connector & terminal (B135) No. 5 (+) — Chassis ground (–): (B135) No. 27 (+) — Chassis ground (–):	Is the voltage 10 V or more?	Go to step 4.	Repair the open or ground short circuit of power supply circuit.
4	CHECK INPUT VOLTAGE OF MAIN RELAY. Measure the voltage between main relay con- nector and chassis ground. <i>Connector &amp; terminal</i> (B47) No. 1 (+) — Chassis ground (-): (B47) No. 5 (+) — Chassis ground (-): (B47) No. 6 (+) — Chassis ground (-):	Is the voltage 10 V or more?	Go to step 5.	Repair the open or ground short circuit of harness of power supply cir- cuit.
5	<ul> <li>CHECK INPUT VOLTAGE OF ECM.</li> <li>1) Connect the main relay connector.</li> <li>2) Turn the ignition switch to ON.</li> <li>3) Measure the voltage between ECM connector and chassis ground.</li> <li>Connector &amp; terminal <ul> <li>(B134) No. 7 (+) — Chassis ground (-):</li> <li>(B135) No. 2 (+) — Chassis ground (-):</li> <li>(B136) No. 24 (+) — Chassis ground (-):</li> </ul> </li> </ul>	Is the voltage 10 V or more?	Check ignition con- trol system. <ref. to EN(H4SO)(diag)- 59, IGNITION CONTROL SYS- TEM, Diagnostics for Engine Starting Failure.&gt;</ref. 	Repair the open or ground short circuit of harness between ECM con- nector and main relay connector.

#### D: IGNITION CONTROL SYSTEM

#### CAUTION:

After repairing or replacing the defective part, perform the Clear Memory Mode <Ref. to EN(H4SO)(diag)-44, OPERATION, Clear Memory Mode.> and Inspection Mode <Ref. to EN(H4SO)(diag)-35, PRO-CEDURE, Inspection Mode.>.

WIRING DIAGRAM:



Step	Check	Yes	No
<ol> <li>CHECK IGNITION SYSTEM FOR SPARKS.         <ol> <li>Remove the plug cord cap from each spark plug.</li> <li>Install a new spark plug on plug cord cap.</li> <li>CAUTION:</li> <li>Do not remove the spark plug from engine.</li> <li>Contact the spark plug's thread portion to the engine.</li> <li>While opening the throttle valve fully, crank the engine to check that spark occurs at each cylinder.</li> </ol> </li> </ol>	Does spark occur at each cylin- der?	Check fuel pump system. <ref. to<br="">EN(H4SO)(diag)- 62, FUEL PUMP CIRCUIT, Diag- nostics for Engine Starting Failure.&gt;</ref.>	Go to step 2.
<ul> <li>2 CHECK POWER SUPPLY CIRCUIT FOR IGNITION COIL AND IGNITOR ASSEMBLY.</li> <li>1) Turn the ignition switch to OFF.</li> <li>2) Disconnect the connector from ignition coil and ignitor assembly.</li> <li>3) Turn the ignition switch to ON.</li> <li>4) Measure the power supply voltage between ignition coil and ignitor assembly connector and engine ground.</li> <li>Connector &amp; terminal         (E12) No. 2 (+) — Engine ground (-):</li> </ul>	Is the voltage 10 V or more?	Go to step 3.	Repair the harness and connector. NOTE: In this case, repair the following item: • Open circuit in harness between the ignition coil and ignitor assembly and ignition switch connector • Poor contact in coupling connector
<ul> <li>3 CHECK HARNESS OF IGNITION COIL AND IGNITOR ASSEMBLY GROUND CIRCUIT.</li> <li>1) Turn the ignition switch to OFF.</li> <li>2) Measure the resistance between the igni- tion coil and ignitor assembly connector and engine ground.</li> <li>Connector &amp; terminal (E12) No. 3 — Engine ground:</li> </ul>	Is the resistance less than 5 Ω?	Go to step <b>4</b> .	Repair the harness and connector. NOTE: In this case, repair the following item: • Open circuit of harness between ignition coil and ig- nitor assembly connector and en- gine grounding ter- minal
<ul> <li>4 CHECK IGNITION COIL AND IGNITOR AS- SEMBLY.</li> <li>1) Remove the spark plug cords.</li> <li>2) Measure the resistance between spark plug cord contact portions to check secondary coil. <i>Terminals</i> <i>No. 1 - No. 2:</i> <i>No. 3 - No. 4:</i></li> </ul>	Is the resistance between 10 and 15 k $\Omega$ ?	Go to step <b>5</b> .	Replace the igni- tion coil and ignitor assembly. <ref. to<br="">IG(H4SO)-6, Igni- tion Coil and Ignitor Assembly.&gt;</ref.>
<ul> <li>5 CHECK INPUT SIGNAL FOR IGNITION COIL AND IGNITOR ASSEMBLY.         <ol> <li>Connect the connector to the Ignition coil and ignitor assembly.</li> <li>Check if voltage varies synchronously with engine speed when cranking, while monitoring voltage between ignition coil and ignitor assem- bly connector and engine ground.</li> <li>Connector &amp; terminal (E12) No. 1 (+) — Engine ground (-): (E12) No. 4 (+) — Engine ground (-):</li> </ol> </li> </ul>	Does the voltage vary more than 10 V?	Go to step <b>6</b> .	Replace the igni- tion coil and ignitor assembly. <ref. to<br="">IG(H4SO)-6, Igni- tion Coil and Ignitor Assembly.&gt;</ref.>

	Step	Check	Yes	No
6	<ul> <li>CHECK HARNESS BETWEEN ECM AND IGNITION COIL AND IGNITOR ASSEMBLY</li> <li>CONNECTOR.</li> <li>1) Turn the ignition switch to OFF.</li> <li>2) Disconnect the connectors from ECM.</li> <li>3) Disconnect the connector from ignition coil and ignitor assembly.</li> <li>4) Measure the resistance of harness between ECM and ignition coil and ignitor assembly connector.</li> <li>Connector &amp; terminal (B137) No. 18 – (E12) No. 1: (B137) No. 19 – (E12) No. 4:</li> </ul>	Is the resistance less than 1 Ω?	Go to step 7.	Repair the harness and connector. NOTE: In this case, repair the following item: • Open circuit in harness between ECM and ignition coil and ignitor as- sembly connector • Poor contact in coupling connector
7	CHECK HARNESS BETWEEN ECM AND IG- NITION COIL AND IGNITOR ASSEMBLY CONNECTOR. Measure the resistance of harness between ECM and engine ground. Connector & terminal: (B137) No. 18 — Engine ground: (B137) No. 19 — Engine ground:	Is the resistance 1 MΩ or more?	Go to step 8.	Repair the ground short circuit of har- ness between ECM and ignition coil and ignitor assembly connec- tor.
8	CHECK POOR CONTACT. Check poor contact of ECM connector.	Is there poor contact in ECM connector?	Repair poor con- tact in ECM con- nector.	Check fuel pump circuit. <ref. to<br="">EN(H4SO)(diag)- 62, FUEL PUMP CIRCUIT, Diag- nostics for Engine Starting Failure.&gt;</ref.>

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#### E: FUEL PUMP CIRCUIT

#### CAUTION:

After repairing or replacing the defective part, perform the Clear Memory Mode <Ref. to EN(H4SO)(diag)-44, OPERATION, Clear Memory Mode.> and Inspection Mode <Ref. to EN(H4SO)(diag)-35, PRO-CEDURE, Inspection Mode.>.

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK OPERATING SOUND OF FUEL	Does the fuel pump emit oper-	Check the fuel	Go to step 2.
	PUMP.	ating sound?	injector circuit.	
	Make sure that fuel pump is in operation for 2		<ref. td="" to<=""><td></td></ref.>	
	seconds when turning the ignition switch to ON.		EN(H4SO)(diag)-	
	NOTE:		65, FUEL INJEC-	
	aru Select Monitor		Diagnostics for	
	For procedure, refer to "Compulsory Valve Op-		Engine Starting	
	eration Check Mode". <ref. en(h4so)(di-<="" th="" to=""><th></th><th>Failure.&gt;</th><th></th></ref.>		Failure.>	
	ag)-45, Compulsory Valve Operation Check			
	Mode.>			
2	CHECK GROUND CIRCUIT OF FUEL PUMP.	Is the resistance less than 5 $\Omega$ ?	Go to step 3.	Repair the harness
	<ol> <li>Ium the ignition switch to OFF.</li> <li>Remove the fuel nump access hole lid</li> </ol>			and connector.
	<ol> <li>Disconnect the connector from fuel pump.</li> </ol>			NUTE: In this case renair
	4) Measure the resistance of harness connec-			the following item:
	tor between fuel pump and chassis ground.			<ul> <li>Open circuit in</li> </ul>
	Connector & terminal			harness between
	(H58) No. 4 — Chassis ground:			fuel pump connec-
				arounding terminal
				<ul> <li>Poor contact in</li> </ul>
				coupling connector
3	CHECK POWER SUPPLY TO FUEL PUMP.	Is the voltage 10 V or more?	Replace the fuel	Go to step 4.
	1) Turn the ignition switch to ON.		pump. <ref. td="" to<=""><td></td></ref.>	
	2) Measure the voltage of power supply circuit		FU(H4SO)-52,	
	around.			
	Connector & terminal			
	(R58) No. 1 (+) — Chassis ground (–):			
4	CHECK HARNESS BETWEEN FUEL PUMP	Is the resistance less than 1 $\Omega$ ?	Go to step 5.	Repair the harness
	AND FUEL PUMP RELAY CONNECTOR.			and connector.
	<ol> <li>Measure the resistance of harness connec-</li> </ol>			NOTE: In this case, renair
	tor between fuel pump and fuel pump relay.			the following item:
	Connector & terminal			<ul> <li>Open circuit in</li> </ul>
	(R58) No. 1 — (B46) No. 4:			harness between
				fuel pump connec-
				tor and chassis
				<ul> <li>Poor contact in</li> </ul>
				coupling connector
5	CHECK HARNESS BETWEEN FUEL PUMP	Is the resistance 1 $M\Omega$ or	Go to step 6.	Repair the short
	AND FUEL PUMP RELAY CONNECTOR.	more?		circuit of harness
	Measure the resistance of harness between			between fuel pump
	Connector & terminal			relav connector.
	(R58) No. 1 — Chassis ground:			· · · · <b>,</b> · · · · · · · · · · · · · · · · · · ·
6	CHECK FUEL PUMP RELAY.	Is the resistance less than 10	Go to step 7.	Replace the fuel
	1) Disconnect the connectors from fuel pump	Ω?		pump relay. <ref.< td=""></ref.<>
	relay and main relay.			TO FU(H4SU)-42,
	with bracket.			i dei i dilip inelay.>
	3) Connect the battery to fuel pump relay con-			
	nector terminals No. 1 and No. 3.			
	4) Measure the resistance between connector			
	Terminals of fuel pump relay.			
	No. 2 — No. 4:			

ENGINE (DIAGNOSTICS)

	Step	Check	Yes	No
7	<ul> <li>CHECK HARNESS BETWEEN ECM AND</li> <li>FUEL PUMP RELAY CONNECTOR.</li> <li>1) Disconnect the connectors from ECM.</li> <li>2) Measure the resistance of harness between</li> <li>ECM and fuel pump relay connector.</li> <li>Connector &amp; terminal</li> <li>(B136) No. 13 — (B46) No. 3:</li> </ul>	Is the resistance less than 1 $\Omega$ ?	Go to step <b>8</b> .	Repair the open circuit of harness between ECM and fuel pump relay connector.
8	CHECK POOR CONTACT. Check poor contact of ECM connector.	Is there poor contact in ECM connector?	Repair poor con- tact in ECM con- nector.	Check the fuel injector circuit. <ref. to<br="">EN(H4SO)(diag)- 65, FUEL INJEC- TOR CIRCUIT, Diagnostics for Engine Starting Failure.&gt;</ref.>

#### F: FUEL INJECTOR CIRCUIT

#### CAUTION:

• Check or repair only faulty parts.

• After repairing or replacing the defective part, perform the Clear Memory Mode <Ref. to EN(H4SO)(diag)-44, OPERATION, Clear Memory Mode.> and Inspection Mode <Ref. to EN(H4SO)(diag)-35, PROCEDURE, Inspection Mode.>.





Step	Check	Yes	No
1 CHECK OPERATION OF EACH FUEL INJEC- TOR. While cranking the engine, check that each fuel injector emits the "operating" sound. Use a sound scope or attach a screwdriver to the injector for this check.	Does the fuel injector operate?	Check the fuel pressure. <ref. to<br="">ME(H4SO)-29, INSPECTION, Fuel Pressure.&gt;</ref.>	Go to step 2.
<ul> <li>2 CHECK POWER SUPPLY TO EACH FUEL INJECTOR.</li> <li>1) Turn the ignition switch to OFF.</li> <li>2) Disconnect the connector from fuel injector.</li> <li>3) Turn the ignition switch to ON.</li> <li>4) Measure the power supply voltage between fuel injector terminal and engine ground.</li> <li>Connector &amp; terminal</li> <li>#1 (E5) No. 2 (+) — Engine ground (-):</li> <li>#2 (E16) No. 2 (+) — Engine ground (-):</li> <li>#3 (E6) No. 2 (+) — Engine ground (-):</li> <li>#4 (E17) No. 2 (+) — Engine ground (-):</li> </ul>	Is the voltage 10 V or more?	Go to step 3.	Repair the harness and connector. NOTE: In this case, repair the following item: • Open circuit in harness between main relay and fuel injector connector • Poor contact in main relay connec- tor • Poor contact in coupling connector • Poor contact in fuel injector con- nector
<ul> <li>CHECK HARNESS BETWEEN ECM AND FUEL INJECTOR CONNECTOR.</li> <li>Disconnect the connectors from ECM.</li> <li>Measure the resistance of harness between ECM and fuel injector connector.</li> <li><i>Connector &amp; terminal</i> #1 (B137) No. 8 – (E5) No. 1: #2 (B137) No. 9 – (E16) No. 1: #3 (B137) No. 10 – (E6) No. 1: #4 (B137) No. 11 – (E17) No. 1:</li> </ul>	Is the resistance less than 1 Ω?	Go to step 4.	Repair the harness and connector. NOTE: In this case, repair the following item: • Open circuit in harness between ECM and fuel in- jector connector • Poor contact in coupling connector
4 CHECK HARNESS BETWEEN ECM AND FUEL INJECTOR CONNECTOR. Measure the resistance of harness between ECM and fuel injector connector. Connector & terminal #1 (B137) No. 8 — Chassis ground: #2 (B137) No. 9 — Chassis ground: #3 (B137) No. 10 — Chassis ground: #4 (B137) No. 11 — Chassis ground:	Is the resistance 1 MΩ or more?	Go to step 5.	Repair the ground short circuit of har- ness between ECM and fuel injector connector.
<ul> <li>5 CHECK EACH FUEL INJECTOR.         <ol> <li>1) Turn the ignition switch to OFF.</li> <li>2) Measure the resistance between each fuel injector terminals.</li> </ol> </li> <li>Terminals         <ol> <li>No. 1 - No. 2:</li> </ol> </li> </ul>	Is the resistance between 5 and 20 Ω?	Go to step <b>6</b> .	Replace the faulty fuel injector.
6 CHECK POOR CONTACT. Check poor contact of ECM connector.	Is there poor contact in ECM connector?	Repair poor con- tact in ECM con- nector.	Inspection using "General Diagnos- tic Table" <ref. to<br="">EN(H4SO)(diag)- 337, INSPEC- TION, General Diagnostic Table.&gt;</ref.>