Caution

• Vehicle specifications differ depending on the vehicle identification number (VIN).

— Type A VIN:

JM0 KE****** 100001—

JM6 KE****** 100001—

JM7 KE****** 100001—

JM8 KE****** 100001—

JMZ KE****** 100001—

KE10** 100001—

Type B VIN:

JM0 KE****** 200001—

JM6 KE****** 200001—

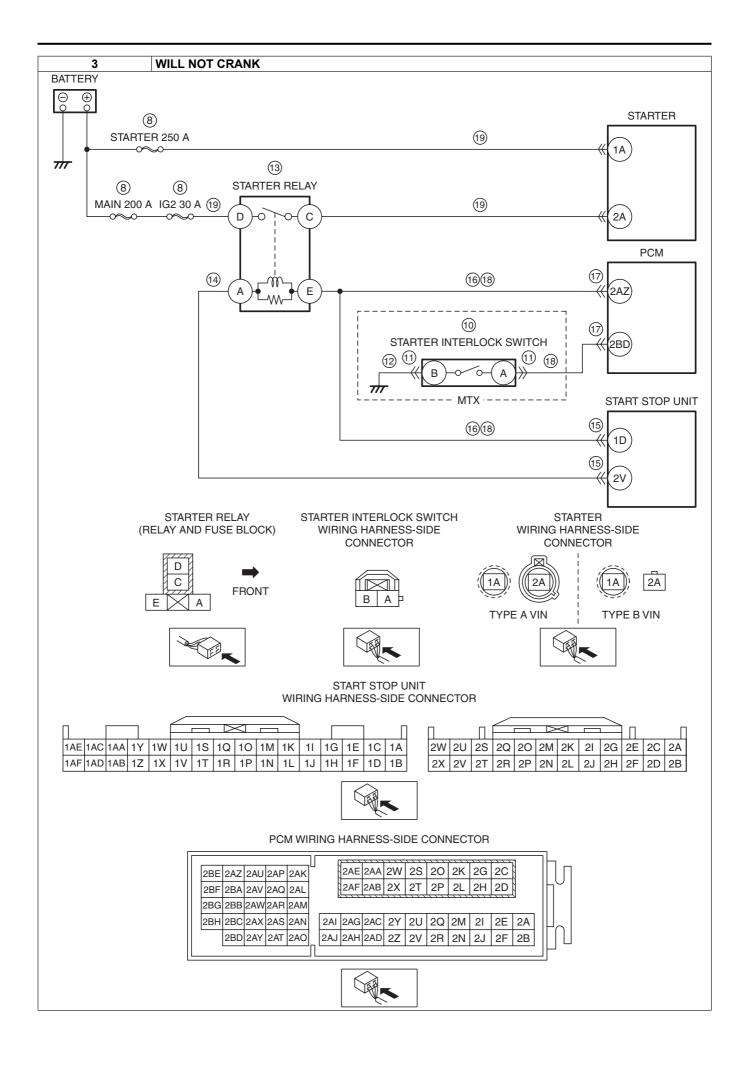
JM8 KE****** 200001—

JMZ KE******* 200001—

JMZ KE******** 200001—

KE10** 200001—

3	WILL NOT CRANK		
DESCRIPTION			
POSSIBLE CAUSE	 Poor connection of push button start connector Instrument cluster or related wiring harness malfunction Immobilizer system malfunction PCM continuous memory DTC is stored Open circuit in wiring harness between the following terminals: Main relay terminal E—PCM terminal 2K Main relay terminal C—PCM terminal 2S, 1CK DLC-2—PCM terminal 2AK, 2AL Main relay malfunction (stuck open) Open or poor ground circuit Poor connection of vehicle body ground Battery malfunction Fuse malfunction Starter relay malfunction Starter relay related wiring harness malfunction Between starter relay terminal E and PCM terminal 2AZ Between starter relay terminal E and start stop unit terminal 1D 		



Diagnostic Procedure

	Diagnostic Procedure			
STEP	INSPECTION	RESULTS	ACTION	
1	DETERMINE IF MALFUNCTION CAUSE IS IMMOBILIZER SYSTEM OR OTHER	Yes	Both conditions present: • Go to Step 4.	
	Are any of the following conditions present? Engine does not start completely. PCM DTC P1260:00 is displayed.	No	Either or other condition present: • Go to the next step.	
2	INSPECT PUSH BUTTON START	Yes	Go to the next step.	
	CONNECTOR CONNECTION Inspect the connection of the push button start connector. Is the push button start connector securely connected to the coil antenna?	No	Reconnect the push button start securely, then repeat from Step 1.	
3	DETERMINE IF MALFUNCTION CAUSE IS	Yes	Go to the next step.	
	INSTRUMENT CLUSTER OR OTHER • Does the security indicator light illuminate?	No	Inspect the instrument cluster and related wiring harness. (See INSTRUMENT CLUSTER INSPECTION.) Repair or replace the malfunctioning part according to the inspection results. (See INSTRUMENT CLUSTER REMOVAL/INSTALLATION.)	
4	• Retrieve the immobilizer system DTC using the	Yes	Go to the applicable DTC inspection. (See DTC TABLE [IMMOBILIZER SYSTEM].)	
	M-MDS. (See DTC INSPECTION [IMMOBILIZER SYSTEM].) • Are any DTCs present?	No	Go to the next step.	
5	DETERMINE IF MALFUNCTION CAUSE IS i-	Yes	Go to the next step.	
	stop SYSTEM OR OTHERTurn off the i-stop system.Verify the symptom.Is the symptom confirmed?	No	Perform the symptom troubleshooting "NO.6 ENGINE DOES NOT RESTART". (See NO.6 ENGINE DOES NOT RESTART [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)	
6	Retrieve any DTCs using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) Are any continuous memory DTCs present?	Yes	Continuous memory DTC is displayed: • Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) Communication error message is displayed: • Inspect the following: — Open circuit in wiring harness between main relay terminal E and PCM terminal 2K — Open circuit in wiring harness between main relay terminal C and PCM terminal 1CK or 2S — Main relay (stuck open) — Open or short circuit in wiring harness between DLC-2 and PCM terminal 2AK or 2AL — Open or poor ground circuit (PCM terminal 1BZ, 1CL, 1CP, 1CT, 1CX, 1DB, 1DH, 1DL and 2AA) — Poor connection of vehicle body ground • Repair or replace the malfunctioning part according to the inspection results.	
		No	Go to the next step.	

STEP	INSPECTION	DECIII TO	ACTION
7	INSPECTION INSPECT POWER SUPPLY	Yes	ACTION Go to the next step.
	Access the VPWR PID using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) Verify the VPWR PID value. Is the VPWR PID value B+?	No	Inspect the following: • Battery connection • Battery condition (See BATTERY INSPECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See BATTERY INSPECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) • Fuse (See NO.1 BLOWN FUSES [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) — If there is any malfunction: • Repair or replace the malfunctioning part according to the inspection results, then repeat this step.
8	DETERMINE IF MALFUNCTION CAUSE IS	Yes	Go to Step 18.
	STARTER RELAY CONTROL SIGNAL CIRCUIT OR OTHER • Switch the ignition to START. • Is a clicking sound heard from the starter relay?	No	ATX: • Go to Step 12. MTX: • Go to the next step.
9	DETERMINE IF MALFUNCTION CAUSE IS STARTER INTERLOCK SWITCH OR OTHER • Switch the ignition off. • Short the starter interlock switch terminals A and B (wiring harness-side) using a jumper wire. • Switch the ignition to START. • Does the engine start?	Yes	Inspect the starter interlock switch. (See STARTER INTERLOCK SWITCH INSPECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) • If there is any malfunction: — Replace the starter interlock switch, then repeat Step 8. (See STARTER INTERLOCK SWITCH REMOVAL/INSTALLATION [C66M-R, C66MX-R].) • If there is no malfunction: — Go to the next step.
4.0	INCORPORAÇÃO DE LA COMPANIA DEL COMPANIA DE LA COMPANIA DEL COMPANIA DE LA COMPAN	No	Go to the next step.
10	INSPECT STARTER INTERLOCK SWITCH CONNECTOR CONDITION	Yes	Repair or replace the connector and/or terminals, then repeat Step 8.
	 Switch the ignition off. Disconnect the starter interlock switch connector. Inspect for poor connection (such as damaged/pulled-out pins, corrosion). Is there any malfunction? 	No	Go to the next step.
11	INSPECT STARTER INTERLOCK SWITCH	Yes	Go to the next step.
	GROUND CIRCUIT FOR OPEN CIRCUIT Verify that the starter interlock switch connector is disconnected. Inspect for continuity between starter interlock switch terminal B (wiring harness-side) and body ground. Is there continuity?	No	Repair or replace the wiring harness for a possible open circuit, then repeat Step 8.
12	INSPECT STARTER RELAY	Yes	Replace the starter relay.
	 Remove the starter relay. Inspect the starter relay. (See RELAY INSPECTION.) Is there any malfunction? 	No	Repeat Step 8. Go to the next step.
13	INSPECT STARTER RELAY CONTROL	Yes	Go to the next step.
	 CIRCUIT FOR SHORT TO GROUND OR OPEN CIRCUIT Starter relay is removed. Verify that the starter interlock switch connector is disconnected. (MTX) Measure the voltage at the starter relay terminal A (wiring harness-side) while cranking the engine. Is the voltage B+? 	No	Repair or replace the wiring harness for a possible short to ground or open circuit. Repeat Step 8.

STEP	INSPECTION	RESULTS	ACTION
14	INSPECT START STOP UNIT CONNECTOR	Yes	Repair or replace the connector and/or terminals, then
	CONDITION		repeat Step 8.
	Switch the ignition off.	No	Go to the next step.
	Disconnect the start stop unit connector.		·
	• Inspect for poor connection (such as damaged/		
	pulled-out pins, corrosion).		
	Is there any malfunction?		
15	INSPECT STARTER RELAY CONTROL	Yes	If the short to ground circuit could be detected in the
	CIRCUIT FOR SHORT TO GROUND		wiring harness:
	Starter relay is removed.		Repair or replace the wiring harness for a possible
	Verify that the starter interlock switch and start		short to ground.
	stop unit connectors are disconnected.		If the short to ground circuit could not be detected in the
	Inspect for continuity between starter relay		wiring harness:
	terminal E (wiring harness-side) and body		Replace the PCM (short to ground in the PCM internal
	ground.		circuit).
	• Is there continuity?		(See PCM REMOVAL/INSTALLATION [SKYACTIV-G
			2.0, SKYACTIV-G 2.5].)
		No	Repeat Step 8. Go to the next step.
16	INSPECT PCM CONNECTOR CONDITION	Yes	'
10	Disconnect the PCM connector.	165	Repair or replace the connector and/or terminals, then repeat Step 8.
	Inspect for poor connection (such as damaged/	No	Go to the next step.
	pulled-out pins, corrosion).		Go to the flext step.
	• Is there any malfunction?		
17	INSPECT STARTER RELAY CONTROL	Yes	Inspect the start stop unit.
	CIRCUIT FOR OPEN CIRCUIT		(See START STOP UNIT INSPECTION.)
	Starter relay is removed.		If there is any malfunction:
	Verify that the starter interlock switch, start stop		 Replace the start stop unit, then repeat Step 8.
	unit and PCM connectors are disconnected.		(See START STOP UNIT REMOVAL/
	Inspect for continuity between the following		INSTALLATION.)
	terminals (wiring harness-side):		• If there is no malfunction:
	Starter relay terminal E—PCM terminal	N 1.	— Go to the next step.
	2AZ	No	Repair or replace the wiring harness for a possible open
	Starter interlock switch terminal A—PCM terminal 2BD (MTX)		circuit, then repeat Step 8.
	Starter relay terminal E—Start stop unit		
	terminal 1D		
	• Is there continuity?		
18	INSPECT WIRING HARNESS OF STARTER	Yes	Repair or replace the suspected wiring harness.
	POWER SUPPLY CIRCUIT	No	Go to the next step.
	Inspect the following circuit:		
	 Between battery positive terminal and 		
	starter terminal 1A		
	Between battery positive terminal and		
	starter relay terminal D		
	Between starter relay terminal C and starter		
	terminal 2A		
10	• Is there any malfunction?	Vaa	Denois or replace the molfunctioning part according to
19	INSPECT STARTING SYSTEM • Inspect the starting system.	Yes	Repair or replace the malfunctioning part according to the inspection results.
	(See STARTER INSPECTION [SKYACTIV-G	No	Go to the next step.
	2.0, SKYACTIV-G 2.5].)	110	Oo to the flext step.
	• Is there any malfunction?		
	is and only monomonous.		

STEP	INSPECTION	RESULTS	ACTION
20	INSPECT IMMOBILIZER SYSTEM RELATED	Yes	Repair or replace the malfunctioning part according to
	CIRCUIT		the inspection results.
	Inspect the following wiring harness and	No	Go to the next step.
	connectors:		
	 Between push button start terminal A and 		
	start stop unit terminal 1AC		
	Between push button start terminal B and		
	start stop unit terminal 1AE		
	Between start stop unit terminal 2M—Front bedresset and the (FROM) terminal 2M		
	body control module (FBCM) terminal 2K		
	 Between start stop unit terminal 20—Front body control module (FBCM) terminal 2I 		
	Between front body control module (FBCM)		
	terminal 2P—PCM terminal 2AK		
	Between front body control module (FBCM)		
	terminal 2N—PCM terminal 2AL		
	Is there any malfunction?		
21	VERIFY PRESENT MALFUNCTION DTC	Yes	Go to the applicable DTC inspection.
	Perform the KOEO self test.		(See DTC TABLE [SKYACTIV-G 2.0, SKYACTIV-G
	(See KOEO/KOER SELF TEST [SKYACTIV-G		2.5].)
	2.0, SKYACTIV-G 2.5].)	No	Go to the next step.
	Are any DTCs present?		
22	DETERMINE IF MALFUNCTION CAUSE IS	Yes	Repair or replace the malfunctioning part according to
	BASE ENGINE OR OTHER		the inspection results.
	• Inspect for a seized flywheel (MTX) or drive	No	Base engine malfunction or engine damage during
	plate (ATX).		compression due to liquid (such as water, fuel, or engine
	• Is the flywheel (MTX) or drive plate (ATX)		oil) penetration into cylinder.
22	seized?		Overhaul or replace the engine.
23	Verify the test results.	aa any additi	and aumntama
	• If normal, return to the diagnostic index to service any additional symptoms. (See SYMPTOM DIAGNOSTIC INDEX [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)		
	• If a malfunction remains, inspect the related Service Information and perform the repair or diagnosis.		
	 If a mailunction remains, inspect the related Service information and perform the repair or diagnosis. If the vehicle is repaired, troubleshooting is completed. 		
	If the vehicle is not repaired, troubleshooting is completed. If the vehicle is not repaired or additional diagnostic information is not available, replace the PCM.		
	(See PCM REMOVAL/INSTALLATION [SK		
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