

NO.3 WILL NOT CRANK [LF]

B3E010318881W05

3	WILL NOT CRANK
DESCRIPTION	The starter does not work.
POSSIBLE CAUSE	<ul style="list-style-type: none"> • Open starter circuit between ignition switch and starter • TR switch malfunction (ATX) • TR switch misadjustment (ATX) • Low or dead battery • Charging system malfunction • Starter malfunction • Seized/hydrolocked engine, flywheel or drive plate • Immobilizer system and/or circuit malfunction (if equipped) • Immobilizer system operating properly (Ignition key is not registered)

Diagnostic procedure

STEP	INSPECTION	RESULTS	ACTION
1	<p>Note</p> <ul style="list-style-type: none"> • The following test should be performed for vehicles with immobilizer system. Go to Step 7 for vehicles without immobilizer system. <p>Connect the WDS or equivalent to the DLC-2. Do the following conditions appear?</p> <ul style="list-style-type: none"> • The engine is not completely started. • DTC P1260 is displayed. 	Yes	<p>Both conditions appear:</p> <p>Go to Step 4.</p>
		No	<p>Either or other condition appears:</p> <p>Go to the next step.</p>
2	Is the coil connector securely connected to the coil?	Yes	Go to the next step.
		No	Connect the coil connector securely. Return to Step 1.
3	Does the security light illuminate?	Yes	Go to the next step.
		No	Inspect the instrument cluster and wiring harness. (See INSTRUMENT CLUSTER INSPECTION.)
4	<p>Connect the WDS or equivalent to the DLC-2 and retrieve DTC.</p> <p>DTC</p> <p>B1213, B1600, B1601, B1602, B1681, B2103, B2139, B2141, B2431, U2510</p>	Yes	Go to appropriate DTC inspection. (See DTC TABLE [LF].)
		No	Go to the next step.
5	<p>Inspect for the following wiring harnesses and connectors:</p> <ul style="list-style-type: none"> • Between coil terminal A and instrument cluster terminal 2Q • Between coil terminal B and instrument cluster terminal 2S 	Yes	Repair or replace the wiring harness and connector.
		No	Go to the next step.
6	<p>Inspect for the following wiring harnesses and connectors:</p> <ul style="list-style-type: none"> • Between PCM terminal 1A1 and instrument cluster terminal 11 	Yes	Repair or replace the wiring harness and connector.

	<ul style="list-style-type: none"> Between coil terminal 1AM and instrument cluster terminal 1K Is there any malfunction?	No	Go to the next step.
7	Inspect the following: <ul style="list-style-type: none"> Battery connection Battery condition Fuses Transaxle in Park or Neutral (ATX) Are all items normal?	Yes	Go to the next step.
		No	Service if necessary. Repeat Step 7.
8	Is clicking sound heard from starter when the ignition switch is turned to START?	Yes	Go to the next step.
		No	Go to Step 14.
9	Inspect the starting system. (See STARTER INSPECTION.) Is starting system normal?	Yes	Inspect for seized/hydrolocked engine or flywheel or drive plate. (See FLYWHEEL INSPECTION.)
		No	Repair or replace components as required.
10	Do any other electrical accessories function?	Yes	Go to the next step. (ATX) Go to Step 12. (MTX)
		No	Inspect charging system. (See BATTERY INSPECTION.) (See GENERATOR INSPECTION [LF].)
11	Connect the WDS or equivalent to the DLC-2. Turn ignition switch to ON position. Access TR PID. Is TR PID indicated P/N when selecting P or N position?	Yes	Go to the next step.
		No	Inspect TR switch is adjusted properly, inspect for open or short circuit between TR switch and PCM terminal 1S or starter.
12	Connect the WDS or equivalent to the DLC-2. Retrieve any continuous memory DTCs. Are there any continuous memory DTCs displayed?	Yes	DTC is displayed: Go to the appropriate DTC inspection. (See DTC TABLE [LF].) Communication error message is displayed: Inspect for following: <ul style="list-style-type: none"> Open circuit in wiring harness between main relay and PCM terminal 1BE Open circuit in wiring harness between main relay terminal B and PCM terminal 1AT Main relay is stuck open. Open or poor GND circuit (PCM terminal 1BH, 1AZ, 1BD, 1BC or 1BG) Poor connection of vehicle body GND
		No	No DTC is displayed: Inspect following: <ul style="list-style-type: none"> START circuit in ignition switch Open circuit in wiring harness between ignition switch and starter
13	Retrieve any KOEO DTCs using WDS or equivalent. Are there DTCs displayed during KOEO inspection?	Yes	DTC is displayed: Go to the appropriate DTC inspection. (See DTC TABLE [LF].)
		No	No DTC is displayed: Inspect the following: <ul style="list-style-type: none"> START circuit in ignition switch Open circuit in wiring harness between

		ignition switch and starter
14	<p>Verify test results.</p> <ul style="list-style-type: none">• If normal, return to diagnostic index to service any additional symptoms. (See ENGINE SYMPTOM TROUBLESHOOTING [LF].)• If malfunction remains, inspect related Service information perform repair or diagnosis. <p>- If vehicle repaired, troubleshooting completed. - If vehicle not repaired or additional diagnostic information not available, replace the PCM. (See PCM REMOVAL/INSTALLATION [LF].)</p>	