



GROUP  
Engine

MODEL  
2013 MY Rio (UB)  
1.6L GDI

NUMBER  
125 [Rev 1, 11/6/2012]

DATE  
October 2012

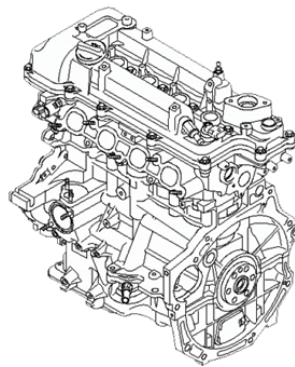
## TECHNICAL SERVICE BULLETIN

**SUBJECT:** SERVICE ACTION: INSPECTION FOR NOISE FROM ENGINE  
UNDER SPECIFIC CONDITIONS (SA 134)

### \*NOTICE

**This bulletin has been revised to include additional information. New/revised sections of this bulletin are indicated by a black bar in the margin.**

This bulletin provides information relating to certain RIO (UB) 2013MY vehicles which may experience “rattling” or “chattering” engine noises under specific conditions. Only a very small number of vehicles within the identified Production Date range will actually be affected; make sure to follow the detailed instructions in this bulletin to prevent unnecessary engine replacements. This procedure applies to vehicles produced from August 09, 2012 to October 09, 2012. Kia is requesting the completion of this Service Action on all affected vehicles in dealer stock prior to delivery. Before conducting the procedure, verify the vehicle is included in the list of affected VINs.



### \*NOTICE

**A Service Action is a repair program without customer notification that is performed during the warranty period. Any dealer requesting to perform this repair outside the warranty period will require DPSM approval.**

**Repair status for a VIN is provided on WebDCS (Service> Warranty Coverage> Warranty Coverage Inquiry> Campaign Information). Not completed Recall / Service Action reports are available on WebDCS (Consumer Affairs> Not Completed Recall> Recall VIN> Select Report), which includes a list of affected vehicles.**

**This issue number is SA134.**

**File Under: <Engine>**

**Circulate To:**       General Manager       Service Manager       Parts Manager  
 Service Advisor(s)  Technician(s)       Body Shop Manager       Fleet Repair

**SUBJECT:** SERVICE ACTION: INSPECTION FOR NOISE FROM ENGINE UNDER SPECIFIC CONDITIONS (SA 134)

**Diagnosis Procedure:**

1. Familiarize yourself with the specific noise by reviewing the sound files below:

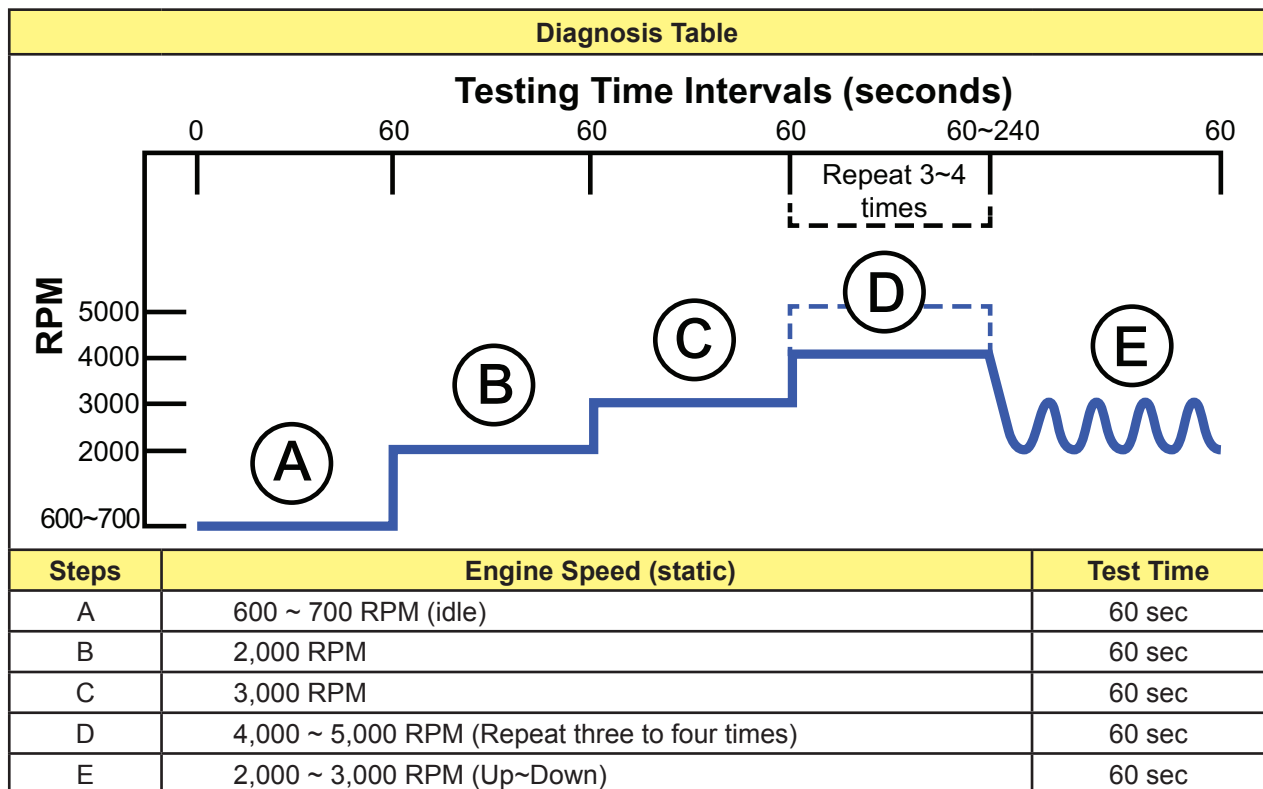


[Normal Sound](#)



[Abnormal Sound](#)

2. Open the hood.
3. Start the engine.
4. Turn off all accessories (air conditioning, radio etc.).
5. Close all doors and windows.
6. For vehicles with **AUTOMATIC TRANSMISSIONS**: Place shift lever in Park while conducting diagnosis test.  
For vehicles with **MANUAL TRANSMISSIONS**: Place shift lever in Neutral and apply parking brake to prevent vehicle movement during diagnosis test.
7. Perform diagnosis procedure below, adhering to the specific speed and time parameters of each step.



**NOTE: Follow these guidelines during diagnosis:**

- Increase engine RPM in a gradual fashion, according to the test times shown in the table above.
- After performing the test for 20 seconds at Step D (4,000 ~ 5,000 RPM), ECU logic will protect the engine by decreasing RPM. Repeat Step D three to four times.
- Engine noise may occur in all sections, but will be heard most prominently during test Step E (at 2,000 ~ 3,000 RPM).

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8. If after completing all test parameters in Steps A ~ E, no abnormal engine noises have been detected, perform Steps D ~ E one more time, to reconfirm that no abnormal noises are present.
9. While performing Step E, allow engine RPM to decrease gradually and check for any chattering noise coming from the engine. If no abnormal engine noises are detected, no further action is required. If chattering noises are detected, follow the instructions provided in the service procedure below.

**Service Procedure:**

1. If chattering noises, consistent with the sound files above, are confirmed, replace the engine (sub-assembly/long block) per applicable service procedure on KGIS.
2. Retain the engine coolant for reuse.

**\*NOTICE**

**Kia is requesting that all retailed vehicles, diagnosed with this condition, be repaired prior to release back to the owner (See warranty section for details on rental car expense reimbursement).**

**AFFECTED VEHICLE PRODUCTION RANGE:**

Model	Production VIN Range
Rio (UB) 2013MY 1.6L GDI	From Aug. 09, 2012 to Oct. 09, 2012

**REQUIRED PART:**

Part Name	Part Number	QTY	Remark
Engine Sub-Assembly (Long Block)	119W12BS00QQK	1	Non-ISG (Idle Stop Go)
	120W12BS00QQK		ISG (Idle Stop Go)
Intake Manifold Gasket	28411 2B600	1	All Models
Exhaust Manifold Gasket	28521 2B400	1	
Engine Oil Filter	26300 35503	1	

**Note: This part is included in the KMA Reman Core Program and a core return pre-claim must be generated to create this claim.**

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**WARRANTY CLAIM INFORMATION:**

Claim Type	Causal P/N	Qty	N Code	C Code	Repair Description	Labor Op Code	Time	Replacement P/N	Qty
V	21020 2B911	0	N92	C32	Engine Noise Inspection	120076R0	0.2 M/H	N/A	0
	21020 2B911	0	N92	C32	Inspect & Sub Engine Replacement	120076R1	6.3 M/H	(NON ISG) 119W1 2BS00QQK 28521 2B400 28411 2B600	1 1 1
	21020 2B911							(ISG) 120W1 2BS00QQK 28521 2B400 28411 2B600	1 1 1

**Note: Only one labor operation may be claimed.**

**\*NOTICE**

**Rental reimbursement:**

Use sublet code X1 for reimbursement of any RENTAL expenses (up to \$45.00/day) associated with this Service Action repair. Details of the rental expense (e.g., reason, # of days, rental company name & rental vehicle) must be stated in the claim comment area and all supporting documents must be kept with the RO.

Engine oil: Maximum allowance of up to \$16.50

Coolant: Reuse original coolant and top off if necessary. Maximum allowance is \$4.80.

**\*NOTICE**

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference SA134 when accessing the WebDCS system.