



GROUP  
ENG

MODEL  
2014-2016MY  
Forte (YD)

NUMBER  
157 (Rev 1, 09/26/2017)

DATE  
July 2016

## TECHNICAL SERVICE BULLETIN

SUBJECT: COMBINATION TSB / SERVICE ACTION: ENGINE  
VIBRATION AT IDLE (SA312)

### \* 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 area.

This bulletin provides the procedure to replace the alternator pulley on some 2014-2016MY Forte (YD) vehicles with 1.8L and 2.0L Nu engines, produced from February 18, 2013 through July 18, 2016, which may experience an unusual engine vibration at idle that is sometimes more prevalent under certain electrical loads. To correct this concern, replace the existing alternator pulley with an improved part. Before conducting the procedure, verify that 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 SA312.

File Under: <Engine>

Circulate To:  General Manager  Service Manager  Parts Manager  
 Service Advisors  Technicians  Body Shop Manager  Fleet Repair

**Replacement Procedure:**

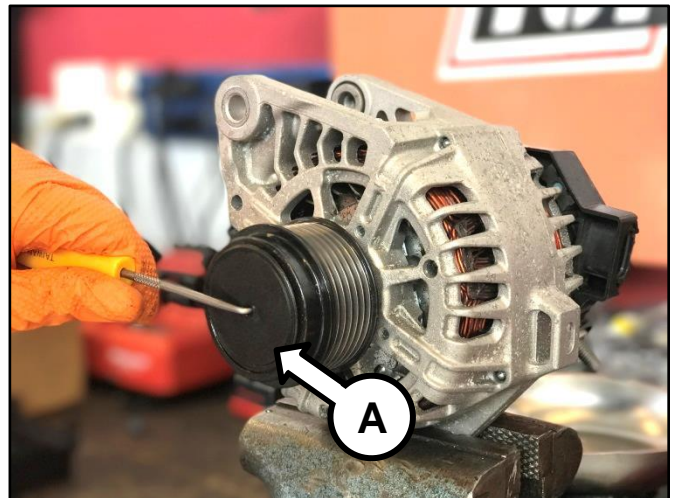
1. Remove the alternator assembly by referring to the “Engine Electrical System → Charging System → Alternator → Repair procedures” chapter in the applicable Shop Manual on KGIS.



2. Secure the alternator on a vise as shown.



3. Puncture the center of the alternator pulley dust cover (A) with pick and remove the cover.



SUBJECT:

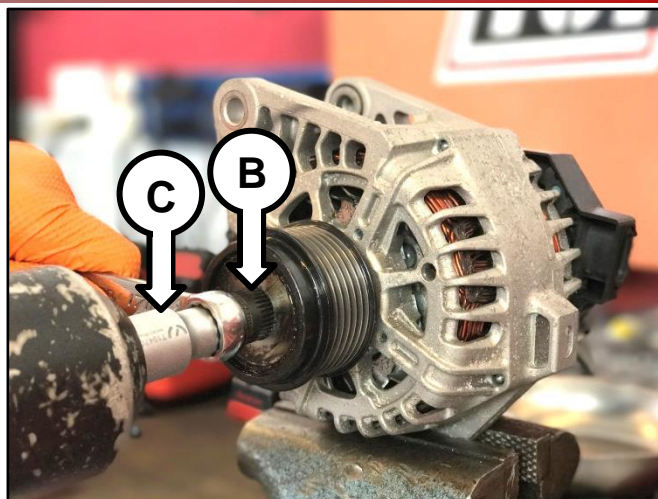
COMBINATION TSB / SERVICE ACTION: ENGINE  
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4. Insert the alternator pulley removal tool (B) into the pulley then insert the T-50 Torx® socket (C) through the alternator removal SST and into the alternator shaft.

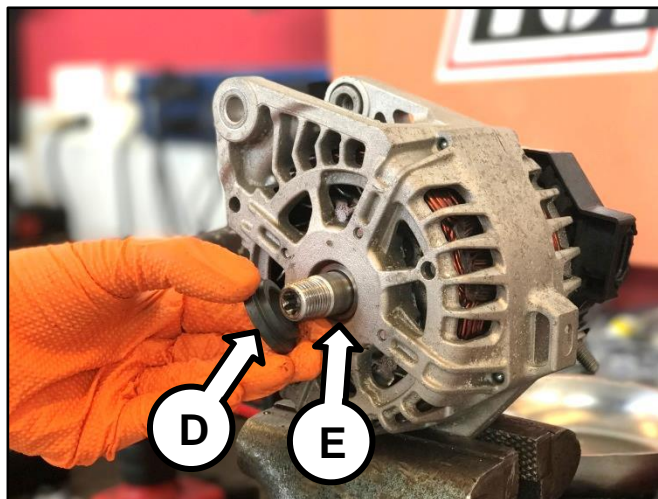
Hold the alternator removal SST with a 17mm wrench then rotate the T-50 Torx® clockwise to loosen and remove the pulley.

**\* NOTICE**

Ensure tools are fully seated to avoid damage to the alternator.



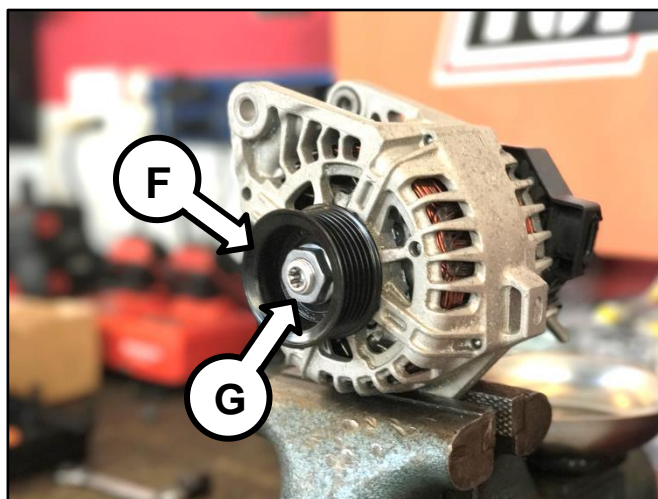
5. With the shaft cleaned, insert the new pulley spacer (D) with the smaller end of the spacer facing inwards. The smaller end of the spacer should fit inside the opening (E).



6. Install the new pulley (F) and secure with the new retaining nut (G). While holding the retaining nut with a 60° angled wrench, tighten and torque the shaft to the specified torque.

**\* NOTICE**

Use a Snap-on 12pt 22-24mm Deep 60° Offset Metric Box Wrench (PN: XOM2224) or a similar tool to hold the retaining nut (G) while torquing the shaft.



**Tightening torque:**  
**59 lb.ft (80.0 N.m, 8.2 kgf.m)**

7. Reinstall the the alternator in the reverse order of removal.
8. Start the engine and verify proper operation of the alternator.





SUBJECT:

## COMBINATION TSB / SERVICE ACTION: ENGINE VIBRATION AT IDLE (SA312)


## AFFECTED VEHICLE RANGE:

Model	Production Date Range
Forte (YD)	February 18, 2013 through July 18, 2016

## REQUIRED TOOL:

Tool Name	Figure	Comments
SST Kit (09373 27000)		Includes Alternator Pulley Tool and T-50 Torx® Located in SST Tool Box Drawer 3
Snap-on 12pt 22-24mm Deep 60° Offset Metric Box Wrench (XOM2224)		Order through Snap-on Business Solutions at (888) 542-1011

## REQUIRED PART:

Part Name	Part Number	Figure
Alternator Pulley	37320 2E010QQK	
	37320 2E010FFF	

## SERVICE ACTION WARRANTY INFORMATION:

N Code: N99 C Code: C99

Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
V	37320 2E000	0	(SA312) Alternator Pulley Replacement	170077R0	0.6 M/H	37320 2E010QQK	1

**\* NOTICE**

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference **SA312** when accessing the WebDCS system.

## STANDARD WARRANTY CLAIM INFORMATION:

Use this information only to file a warranty claim for vehicles for which:

1. A customer complains of the same concern, as described on Page 1.
2. The VIN does not appear on the Affected Vehicles list for Service Action 312.
3. The vehicle model year and production date range are as identified in this bulletin.

N Code: N21 C Code: C14

Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
W	37320 2E000	0	Alternator Pulley Replacement	37320F01	0.6 M/H	37320 2E010FFF	1