



GROUP  
**Safety Recall  
Campaign**

MODEL  
**2014MY  
Soul (PS)**

NUMBER  
**SC108 (REV 1, 09/05/2014)**

DATE  
**July 2014**

## VOLUNTARY SAFETY RECALL CAMPAIGN

SUBJECT: **STEERING GEAR ASSEMBLY PINION PLUG  
REPLACEMENT (SC108)**

### ★ 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 information related to the replacement of the steering gear assembly pinion plug of some Soul (PS) vehicles, produced from July 21, 2013 through January 17, 2014, which may exhibit a condition where the pinion plug, which secures the pinion gear in the steering gear assembly, may become loose due to improper application of thread-locking adhesive during assembly. This could result in the pinion gear disengaging from the steering gear assembly, which could cause loss of steering and result in a crash. To correct this concern, replace the steering gear assembly pinion plug following the procedure outlined in this bulletin. Before conducting the procedure, verify the vehicle is included in the list of affected VINs.



### ★ NOTICE

**There is no charge to the vehicle owner for this repair. Under applicable law, you may not sell or otherwise deliver any affected Soul (PS) until it has been repaired pursuant to the procedures set forth in this bulletin.**

### ★ NOTICE

**To assure complete customer satisfaction, always remember to refer to WebDCS Warranty Coverage (validation) Inquiry Screen (Service > Warranty Coverage >Warranty Coverage Inquiry) for a list of any additional campaigns that may need to be performed on the vehicle before returning it to the customer.**

File Under: <Voluntary Safety Recall>

Circulate To:  General Manager  Service Manager  Parts Manager

Service Advisor(s)  Technician(s)  Body Shop Manager  Fleet Repair

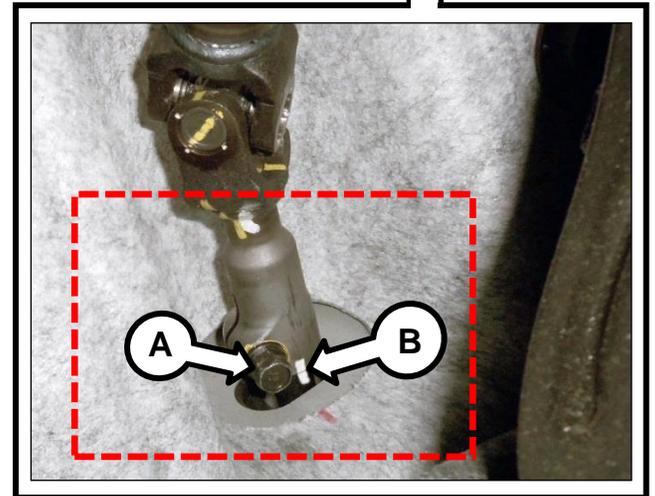
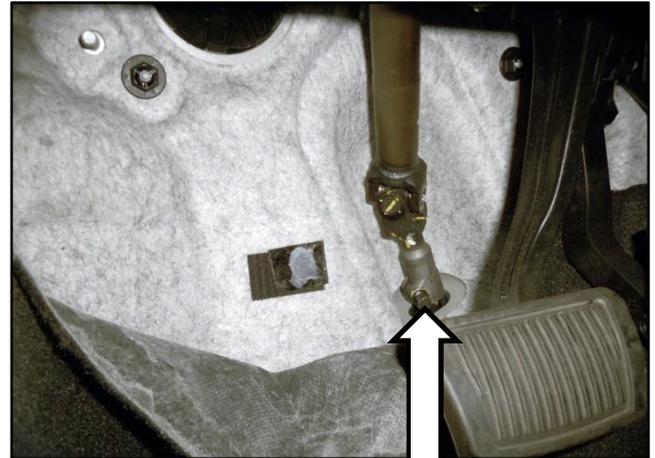
**SUBJECT** STEERING GEAR ASSEMBLY PINION PLUG REPLACEMENT (SC108)

**Service Procedure:**

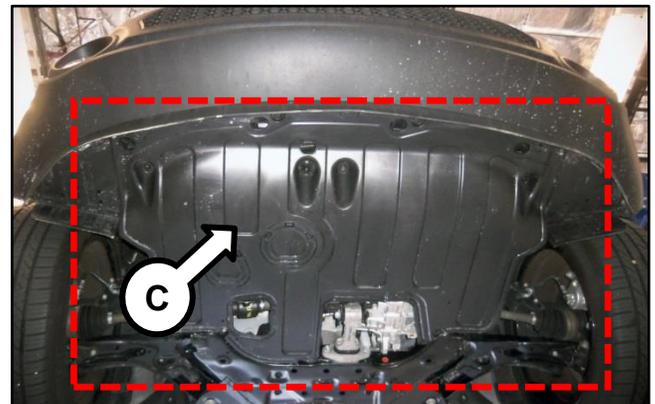
1. Remove and discard the bolt (A) securing the universal joint to the pinion. Prior to removing the universal joint from the pinion, use a permanent, or paint marker, to create an alignment mark (B) between the universal joint and the pinion, as shown below.

**Tightening torque:**  
23.9 ~ 27.5 ft-lb (32.4~ 37.3 Nm)

**\* NOTICE**  
Before removing the universal joint bolt, make sure to align the steering wheel to the center position and lock in place to prevent clock spring damage and/or an off-center condition after reassembly.



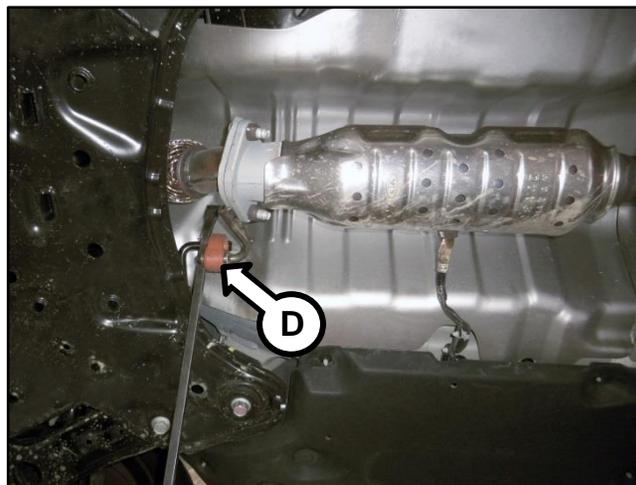
2. Place the vehicle on the lift and remove the under-cover splash shield (C).



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## STEERING GEAR ASSEMBLY PINION PLUG REPLACEMENT (SC108)

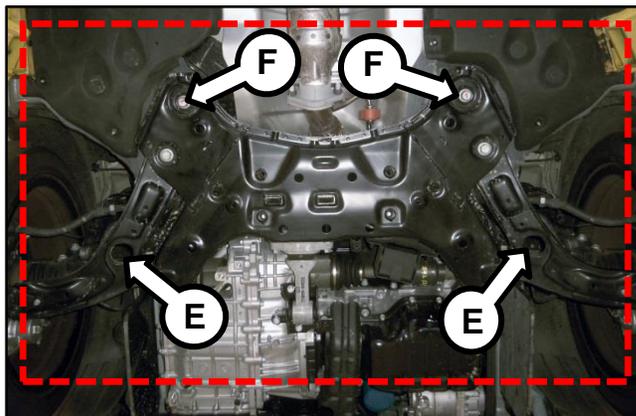
- Remove the rubber hanger (D) from the bracket.



- Remove two nuts (E) and two bolts (F) securing the sub-frame in place. A transmission jack can be used to lower the sub-frame in a controlled manner.

**Tightening torque:**

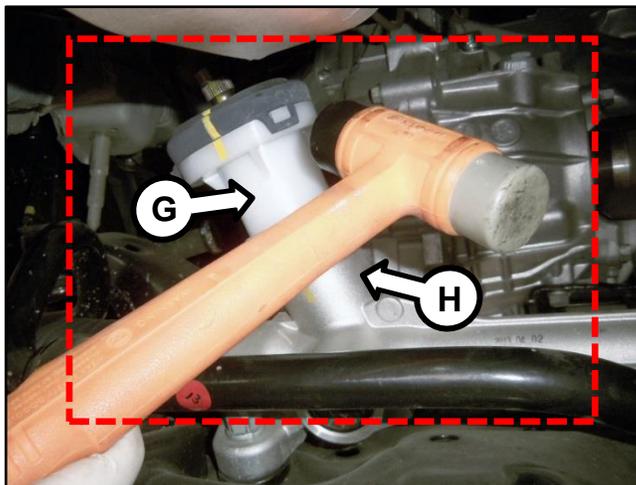
115.7 ~ 130.2 lb-ft (156.9 ~ 176.5 Nm)



- Use a rubber mallet to remove the dust cover (G) from the pinion housing (H).

### \* NOTICE

Retain the dust cover to transfer the alignment marks onto the replacement dust cover, as shown in step 10.



# STEERING GEAR ASSEMBLY PINION PLUG REPLACEMENT (SC108)

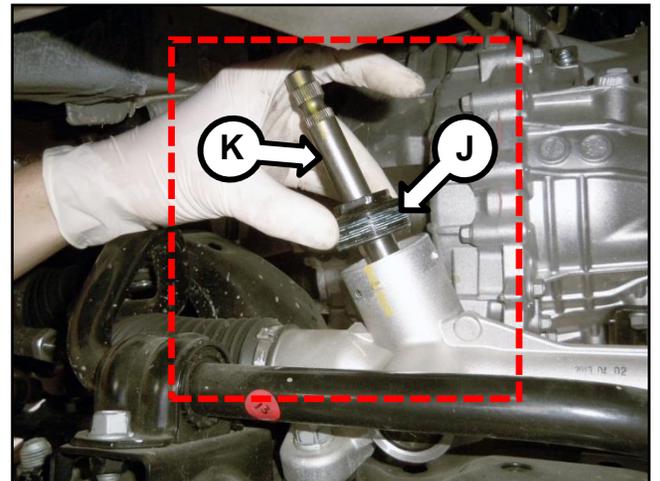
6. Use the SST (I) to loosen the pinion plug, as shown.



7. Remove the pinion plug (J) from the housing, as shown. The pinion plug can be discarded at this point.

**\* NOTICE**

Be careful not to accidentally dislodge the pinion (K) when removing the pinion plug (J).



8. Use an air gun to remove any foreign material from inside the pinion housing.



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## STEERING GEAR ASSEMBLY PINION PLUG REPLACEMENT (SC108)

9. Install a new pinion plug (L) and use the SST to tighten in place.



### CAUTION

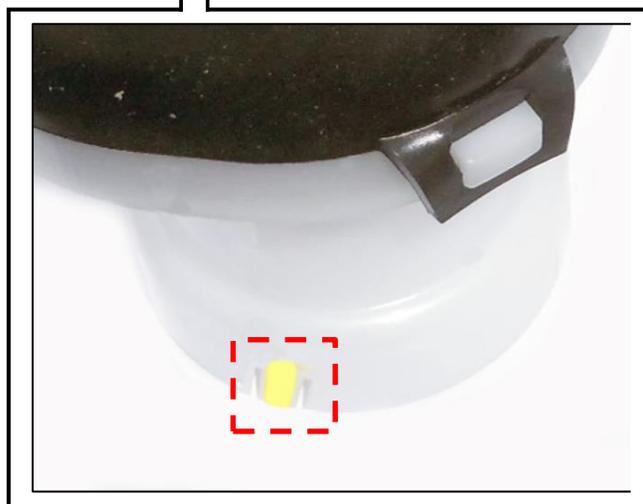
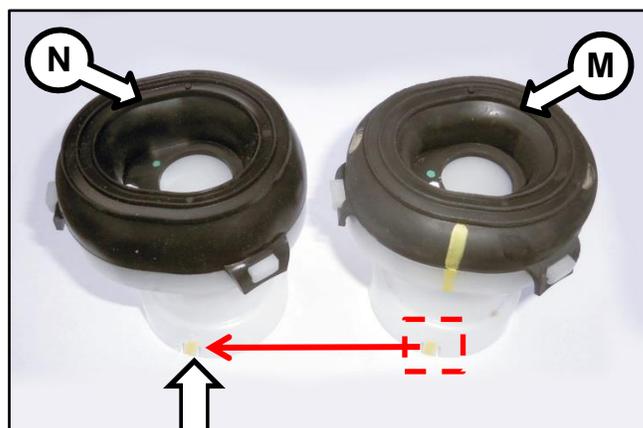
To avoid damaging the steering rack, use the SST to thread the pinion plug by hand, two to three turns, before tightening to specification. A Steering rack damaged by a cross-threaded pinion plug is NOT covered under warranty and may be subject to charge-back.



#### Tightening torque:

55.7 ~ 59.3 lb-ft (75 ~ 80 Nm)

10. Pay close attention to the location of the alignment mark on the original dust cover (M). Use a permanent or paint marker to transfer the alignment mark from the original dust cover (M) onto the replacement dust cover (N), as shown.

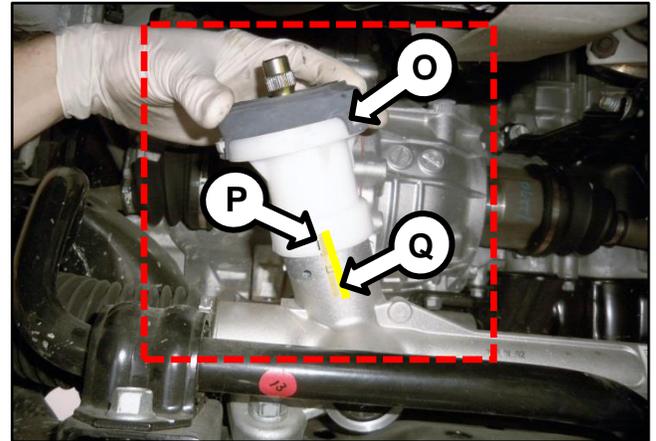


## STEERING GEAR ASSEMBLY PINION PLUG REPLACEMENT (SC108)

11. Install the replacement dust cover (O) onto the pinion housing, as shown.

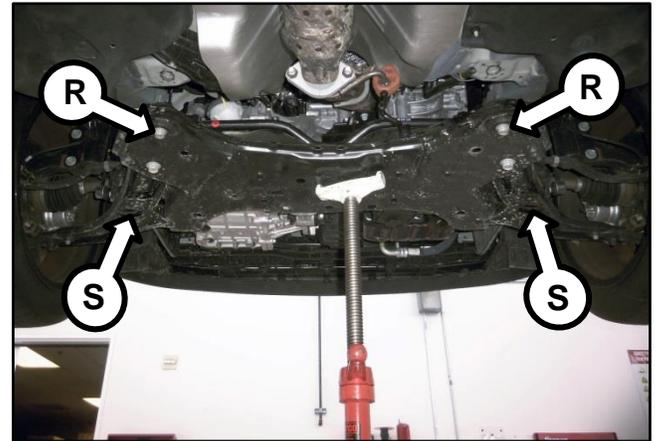
### ★ NOTICE

Be sure to align the mark on the replacement dust cover (P) with alignment mark line on the housing (Q).



12. Use a transmission jack to align the sub-frame with the mounting locations. Then, insert and tighten the bolts (R) followed by the nuts (S).

**Tightening torque:**  
115.7 ~ 130.2 lb-ft (156.9 ~ 176.5 Nm)

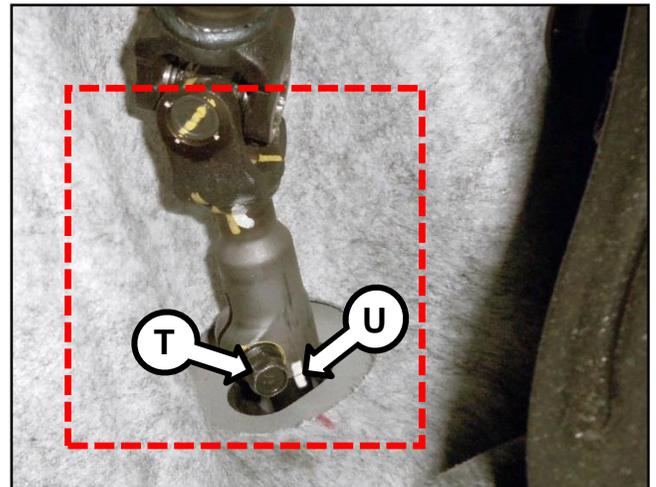


13. Reinstall all removed components by reversing the order of removal.
14. Reinstall the universal joint and secure in place using the replacement bolt (T).

**Tightening torque:**  
23.9 ~ 27.5 ft-lb (32.4~ 37.3 Nm)

### ★ NOTICE

Be sure to use alignment mark (U) made in step 1 to align the universal joint with the pinion.



15. Test drive the vehicle to confirm proper operation. Also, check the steering wheel position for proper alignment.

**SUBJECT:****STEERING GEAR ASSEMBLY PINION PLUG  
REPLACEMENT (SC108)****REQUIRED TOOLS:**

Part Name	Part Number	QTY.	Figure	Comments
Pinion Plug Remove/Install SST	OK577 B2100QQK	1		Auto-shipped to Dealer (For additional tools, contact Snap-On Business Solutions at 888-542-1011)

**REQUIRED PARTS:**

Part Name	Part Number	Qty.	Figure	Comments
Steering Rack Pinion Plug, Dust Cover & Bolt	56501 B2000QQK	1		Supplied as a kit
				
				

**AFFECTED VEHICLE RANGE:**

Model	Production Date Range
Soul (PS)	From July 21, 2013 through January 17, 2014

**WARRANTY INFORMATION:**

Claim Type	Causal P/N	Qty.	N Code	C Code	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
R	56500 E4000	0	N99	C99	(SC108) Steering Rack Pinion Plug, Dust Cover & Bolt Replace	141032R0	0.6 M/H	56501 B2000QQK	1

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