 <b>HYUNDAI</b>   NEW THINKING. NEW POSSIBILITIES. <b>Technical Service Bulletin</b>	GROUP <b>CAMPAIGN</b>	NUMBER <b>14-01-019-1</b>
	DATE <b>MAY 2014</b>	MODEL(S) <b>SONATA (YF), SONATA (YF HEV), AZERA (HG)</b>
<b>SUBJECT: REAR LOWER CONTROL ARMS REPLACEMENT (SERVICE CAMPAIGN TP3)</b>		

**THIS TSB SUPERSEDES TSB 14-01-019 TO UPDATE PLATE WASHER PART NUMBER.**

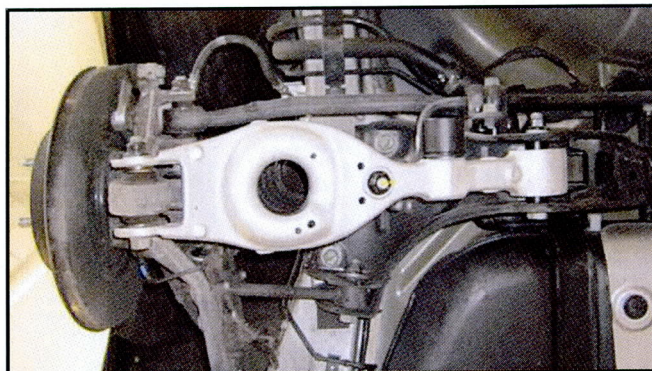
**★ IMPORTANT**

**\*\*\* Retail Vehicles Only \*\*\***

Dealers must perform this Service Campaign whenever an affected vehicle is in the shop for any maintenance or repair.

When a vehicle arrives at the Service Department, access Hyundai Motor America's "Warranty Vehicle Information" screen via WEBDCS to identify open Campaigns.

**Description:** This bulletin describes the procedure to replace the rear lower control arms on some Sonata (YF), Sonata Hybrid (YF HEV), and Azera (HG) vehicles.



**Applicable Vehicles:** SONATA (YF), SONATA HYBRID (YF HEV), AZERA (HG).

- **Sonata (YF) (MY 2011, 2012, 2013)**
  - 16" wheel vehicles: Job #1 to Jan 7, 2011
  - 17/18" wheel vehicles: Job #1 to April 5, 2012
- **Sonata (YF HEV) (MY 2011 AND 2012)**
  - Job #1 to April 4, 2012
- **Azera (HG) (MY 2012)**
  - Job #1 to April 4, 2012

**Area:** Salt belt states, fleet, and regional company vehicles.

USA salt belt areas: Connecticut, Delaware, Illinois, Indiana, Iowa, Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, Vermont, West Virginia, Wisconsin, and the District of Columbia.

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

**★ IMPORTANT**

There are circumstances under which vehicles not currently or never registered in a “salt belt” state may be eligible for this campaign. For example, vehicles that have relocated into a “salt belt” area and/or vehicles registered in a “non salt belt” state and driven in a “salt belt” area are eligible for this campaign. If it is determined that an owner of a vehicle within the affected VIN production date range relocates or has operated their vehicle in a “salt belt” area, the dealer should perform the campaign procedure. The dealer should perform this procedure at no cost to the customer. The dealer’s District Parts and Service Manager should be contacted prior to repair and submission of the Warranty Claim.

**★ NOTE**

If the owner of a vehicle within the affected VIN production date range requests an inspection of the rear lower control arms on their vehicle, the inspection should be performed at no charge to the customer.

**Parts Information:**

PART NAME		MODEL	PART NUMBER	QTY
Rear lower control arm kit (1 KIT includes both rear lower arms LH and RH)		Sonata YF & Sonata (YF HEV) 16” wheels	55277-3Q888-QQH	1
		Sonata (YF) 17 and 18” wheels	55277-3Q777-QQH	1
		Azera (HG) (all)	55277-3V888-QQH	1
Hardware	Cam Bolt	Sonata (YF), Sonata (YF HEV) and Azera (HG)	55260-3R000	2
	Plate Washer		55263-3R000	2
	Spring Washer		13603-14006-K	2
	Nut		33131-42000	2

**Warranty Information:**

MODEL	OP CODE	OPERATION	OP TIME
YF	30C036R0	Rear lower arm replacement (both sides) and rear alignment adjust using alignment machine.	1.8 M/H
YF HEV	30C036R1		
HG	30C036R2		
YF	30C036R4	Rear lower arm replacement (both sides), hardware replacement (both sides), and rear alignment adjust using alignment machine.	2.0 M/H
YF HEV	30C036R5		
HG	30C036R6		

NOTE: Submit Claim on Campaign Claim Entry Screen

**Service Procedure:****\* NOTE**

Before conducting this procedure, verify that the vehicle is included in this Service Campaign by accessing Hyundai Motor America's "Warranty Vehicle Info" screen via WEBDCS.

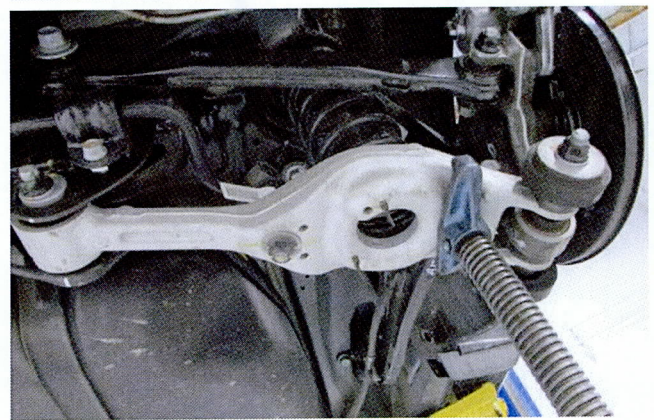
1. Lift the vehicle using a hoist.  
Remove the rear wheel/tire assemblies.

**\* NOTE**

Tightening torque:  
88.3~107.9 Nm (9.0~11.0 kgfm,  
65.1~79.6 lb-ft)



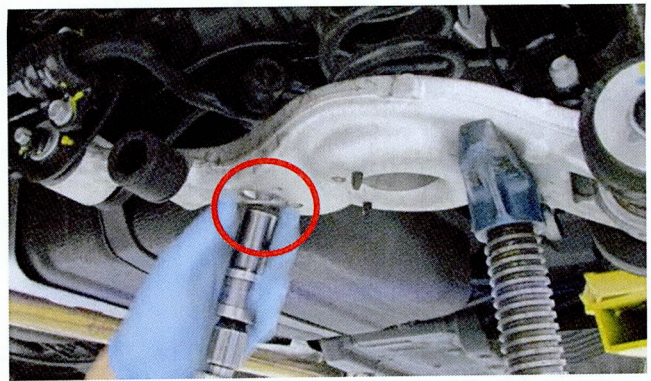
2. Position a transmission jack under the right rear control arm by the spring seat.



3. Remove the right side stabilizer bar end link nut that mounts the link to the control arm. This link will be re-used.

**\* NOTE**

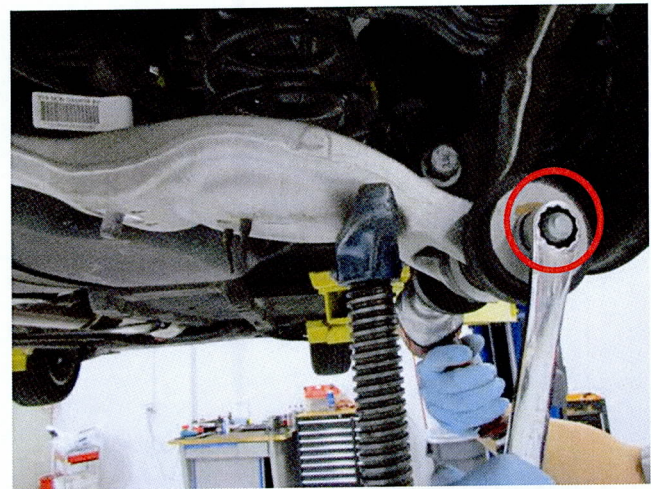
Tightening torque:  
98.1~117.7 Nm (10.0~12.0  
kgfm, 72.3~86.8 lb-ft)



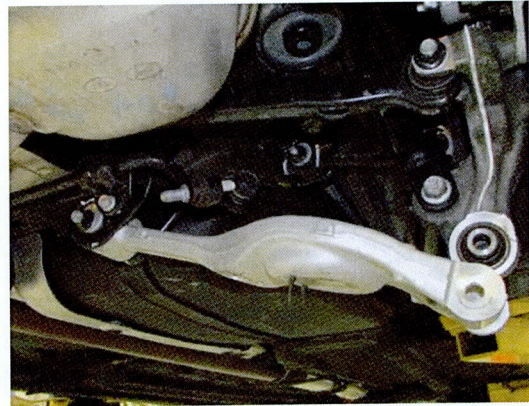
4. Remove the lower control arm bolt at the wheel side.

**\* NOTE**

Tightening torque:  
137.3~156.9 Nm (14.0~16.0  
kgfm, 101.3~115.7 lb-ft)



5. Carefully lower the transmission jack until the control arm swings down and releases the coil spring. Remove the coil spring.



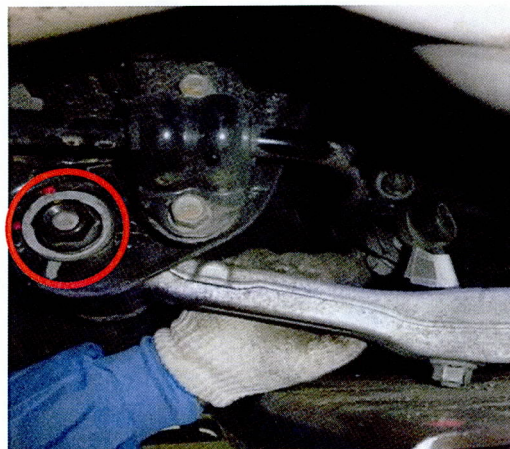
6. Mark the location of the alignment washer, then loosen the control arm bolt on the subframe side.

**★ NOTE**

Tightening torque:  
107.9~117.7 Nm (11.0~12.0  
kgfm, 79.6~86.8 lb-ft)

**★ NOTE**

If required, replace the control arm bolts, plates, spring washers, and nuts on both the left and right sides of the vehicle. See step 6a.



- 6a. If the control arm bolt(s) or other fasteners are difficult to remove, it may be necessary to cut the bolt(s) to remove the control arm.

Saw type used in photos: Chicago brand 4 1/2" Reciprocating Saw, 6 amp, 7/8" stroke.

Blade type used in photos: Milwaukee Sawzall 24 TPI 6" blade.

**★ NOTE**

When it is required to replace the fastening hardware, submit op codes 30C036R4~6.

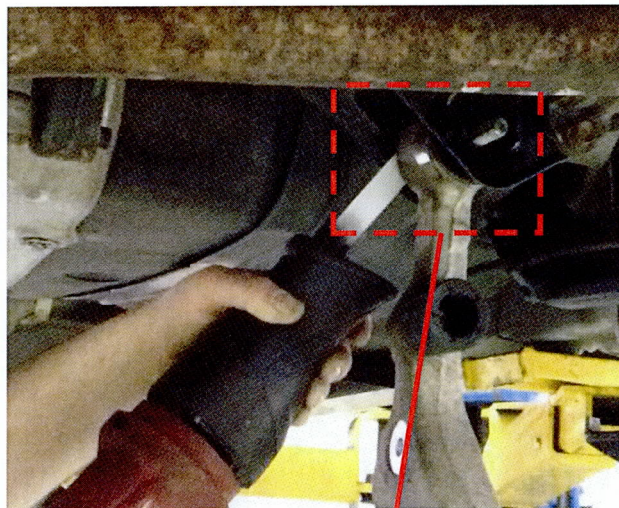
**★ IMPORTANT**

Use caution when removing the fasteners to not damage the rear subframe, fuel tank, or surrounding area.

**★ NOTE**

Replace all the hardware listed in the parts table on page 2.

Replace the hardware on both left and right sides of the vehicle.



7. Locate the rear subframe. Loosen the two right side mounting bolts to allow clearance to remove the control arm bolt.

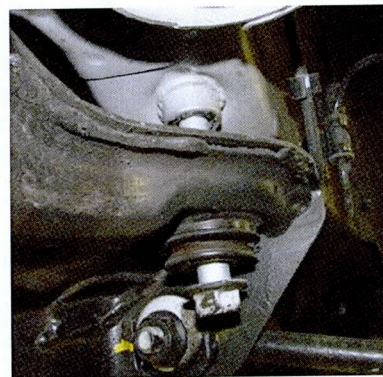
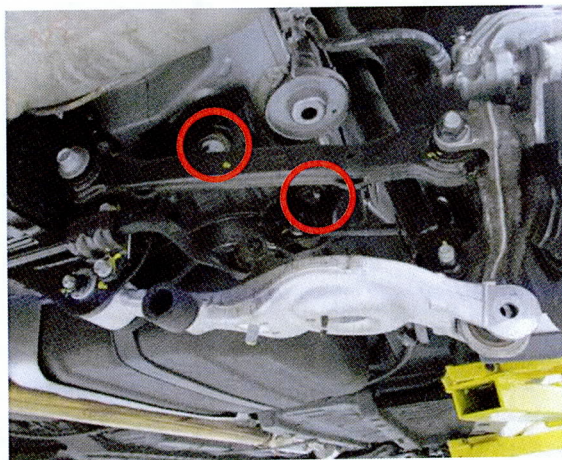
**★ NOTE**

Tightening torque:  
156.9~176.5 Nm (16.0~18.0  
kgfm, 115.7~130.2 lb-ft)

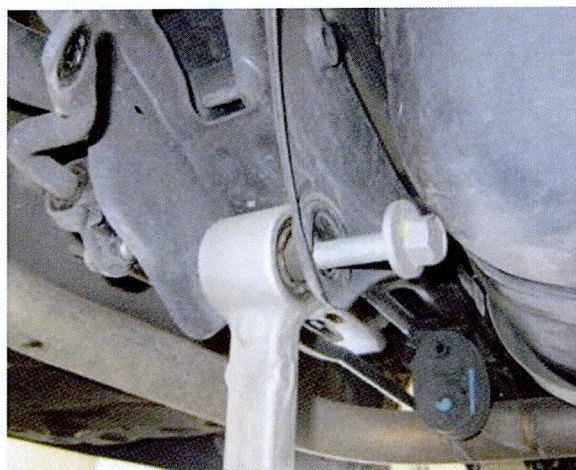
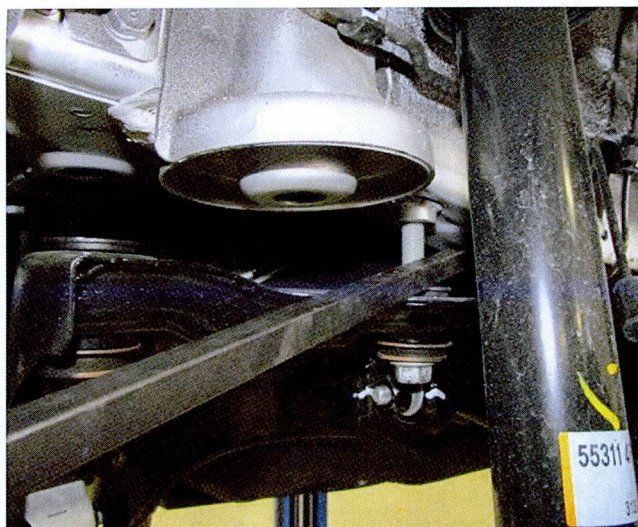
**★ NOTE**

All models of Sonata, Sonata HEV, and Azera require that the RIGHT side of the rear subframe be loosened to allow clearance for the bolt to be removed.

Only Sonata HEV requires an additional step to remove a fastener on the LEFT side to allow clearance for the bolt to be removed. See step 9.



8. Use a pry bar to pull the subframe downwards slightly to create enough clearance between the control arm bolt and the fuel tank. Remove the bolt, and the right side rear lower control arm.

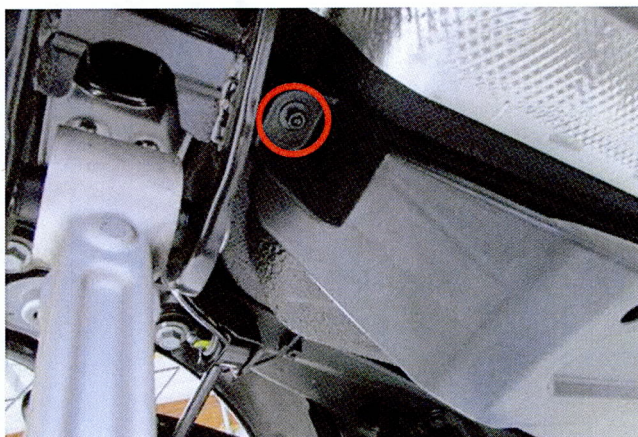


- 9.

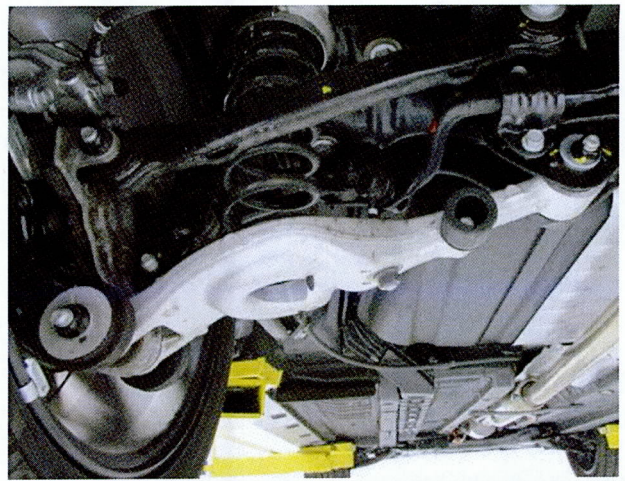
**\* NOTE**

This step applies to Sonata HEV only. Skip this step for other models.

On the LEFT side, remove the fastener for the plastic underbody tray closest to the rear control arm.



10. Repeat steps 2-6 on the left side of the vehicle and then remove the left rear lower control arm.

**\* NOTE**

For Sonata HEV vehicles, push the loosened plastic underbody tray away to create enough clearance for the lower control arm bolt to be removed.



11. Install the new rear left and right lower control arms and re-assemble the vehicle in reverse order of removal.
12. Adjust the rear wheel alignment to the center of specification using an alignment machine.