	GROUP	MODEL
	Service Campaign	**2011~2015MY Optima (TF)** **2011~2015MY Optima Hybrid (TF HEV)** **2009~2010MY Rondo (UN)** **2009~2014MY Sedona (VQ)**
	NUMBER	DATE
	SC135 (Rev 1, 10/13/2016)	**September 2016**

VOLUNTARY EMISSIONS SERVICE CAMPAIGN

SUBJECT: EVAPORATIVE CANISTER INSPECTION AND/OR REPLACEMENT (SC135)

✶ 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 to inspect and/or replace the evaporative canister assembly on some Optima (TF) vehicles, produced from September 2, 2010 through November 29, 2014, some Optima Hybrid (TF HEV) vehicles, produced from February 15, 2011 through November 29, 2014, some Rondo (UN) vehicles, produced from April 1, 2009 through July 30, 2010, and some Sedona (VQ) vehicles, produced from April 1, 2009 through June 17, 2014. The subject vehicles originally sold or currently registered in one of twenty-eight (28) salt belt states may experience a leak detection warning of the evaporative emission systems, along with DTC(s) P0442 or P0455.

For vehicles originally sold or currently registered in one of the twenty-eight (28) salt belt states, (AK, CT, DC, DE, IA, IL, IN, MA, MD, ME, MI, MN, MO, NH, NJ, NY, OH, PA, RI, VT, WI, WV, KS, KY, NE, ND, SD and UT), the evaporative canister will be inspected, and if no leak is found, the mounting bracket will be replaced with a new improved part. If a crack in the evaporative canister is found, the canister will be replaced with a new improved part. Before conducting the procedure, verify the vehicle is included in the list of affected VINs.

For vehicles in other states, Kia is extending the warranty on the evaporative canister from 5 years/60,000 miles to 10 years/120,000 miles, whichever occurs first starting from the date of first service.

Follow the procedures outlined in this bulletin to resolve the concern.

✶ 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: <Service Campaign>

Circulate To: ☒ **General Manager** ☒ **Service Manager** ☒ **Parts Manager**

☒ **Service Advisor(s)** ☒ **Technician(s)** ☒ **Body Shop Manager** ☐ **Fleet Repair**

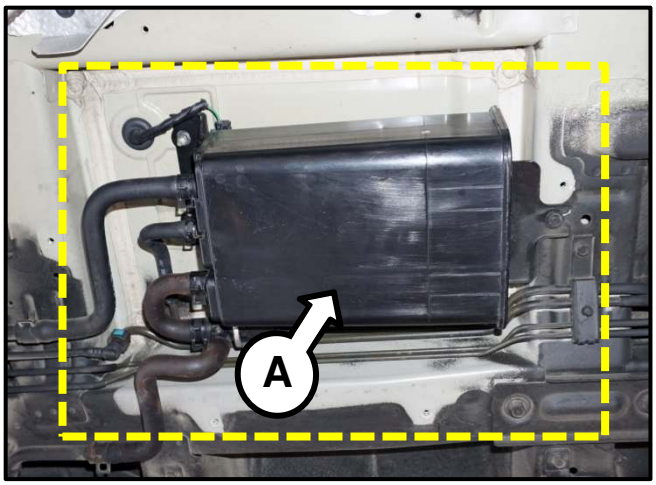
SUBJECT: EVAPORATIVE CANISTER INSPECTION AND/OR REPLACEMENT

⚠ WARNING

Fuel vapors are highly flammable! Death or serious injury could result if they are ignited. Make sure there are no open flames or cigarette smoking in the area of the repair. Adequate ventilation is necessary to prevent a build-up of fumes which could ignite, causing fire or explosion. Additionally, safety glasses and fuel resistant gloves should be worn when performing this procedure.

Inspection Procedure:

1. Remove the Charcoal Canister (A), refer to "Emission Control System → Evaporative Emission Control System → Canister" of the applicable service information for the Rondo (UN), Optima (TF, TF HEV) and Sedona (VQ) on KGIS.



2. Remove the mounting brackets from the charcoal canister.

✶ NOTICE

For Rondo, also remove the heat shield from the canister.



3. Clean all insert nuts using a metal brush and shop air. See diagram on page 3 for specific thread insert locations requiring cleaning. Inspect all insert areas of the charcoal canister (B) carefully for cracks (C), as shown in "**Insert Area Crack Examples**" table on the next page.
If no cracks are present, proceed to "**Replace Bracket Kit**" and discard all bolts and previously removed bracket which will not be reused.

If cracks are present, proceed to the "**Canister Replacement**" procedure and retain removed brackets for later reuse and only discard removed bolts.

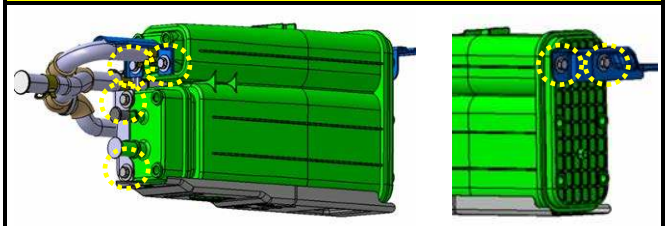

Before wire brushing


After wire brushing

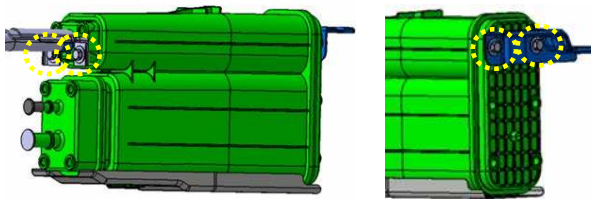
SUBJECT: EVAPORATIVE CANISTER INSPECTION AND/OR REPLACEMENT

THREAD INSERT NUTS REQUIRING CLEANING:

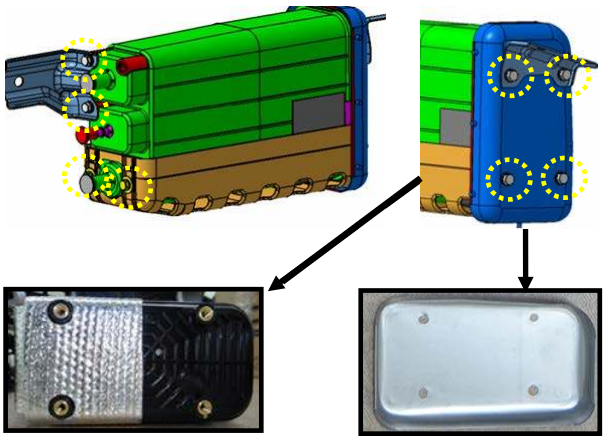
Optima (TF) SULEV(4 top, 2 bottom)



Optima (TF ULEV)(2 top, 2 bottom)

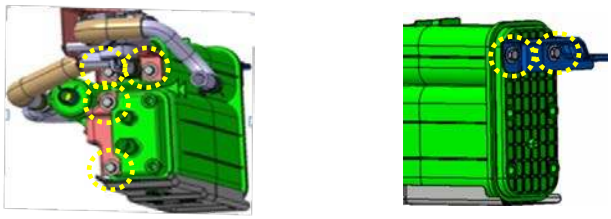


Rondo (UN) (4 top, 4 bottom)

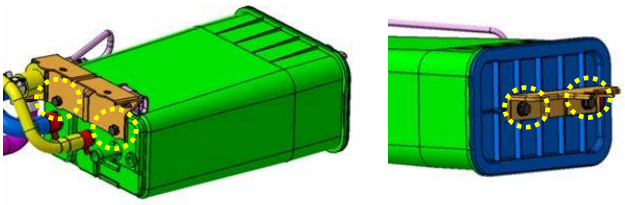


Lower Insert Nut	Heat Shield

Optima (TF HEV) (4 top, 2 bottom)

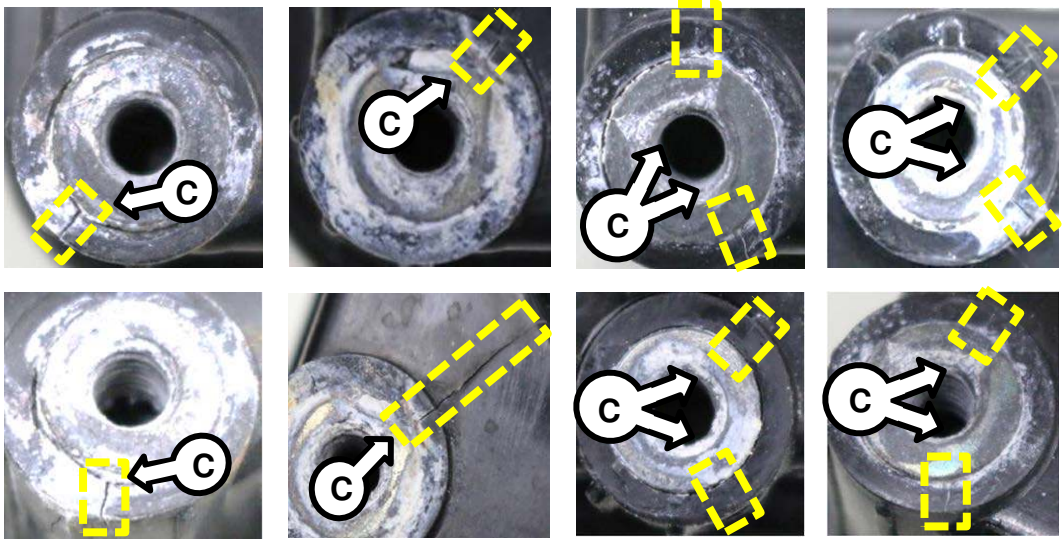


Sedona (VQ) (2 top, 2 bottom)



Note: In case of Rondo (UN) clean the lower Insert nuts after removing bracket and heat shield.

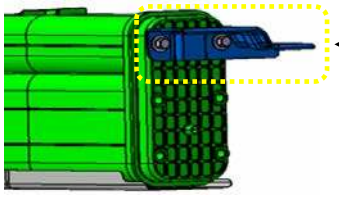
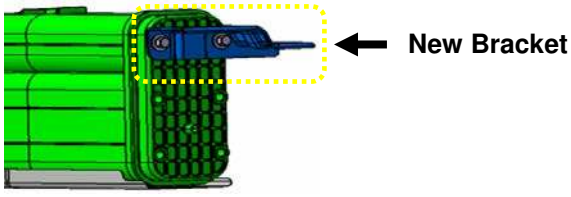
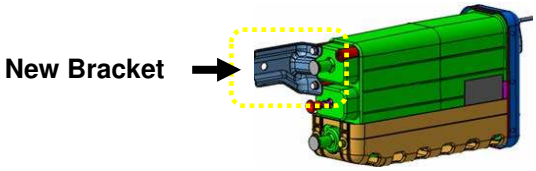
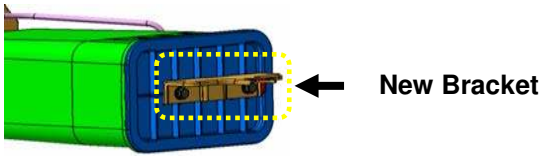
Insert Area Canister Crack Examples



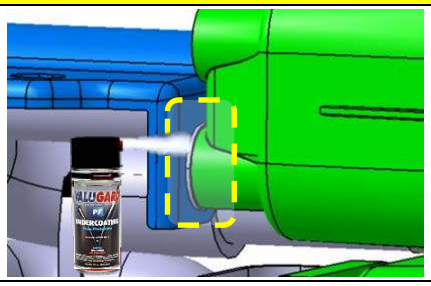
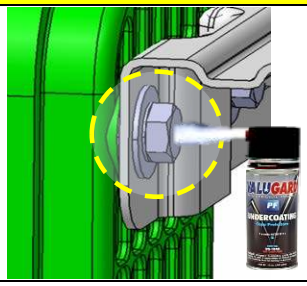
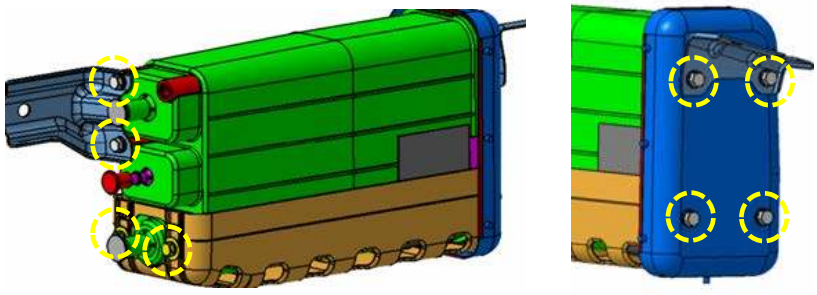
SUBJECT: EVAPORATIVE CANISTER INSPECTION AND/OR REPLACEMENT

Replace Bracket Kit Procedure:

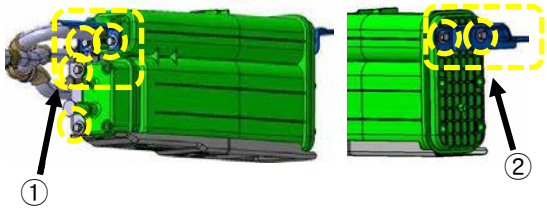
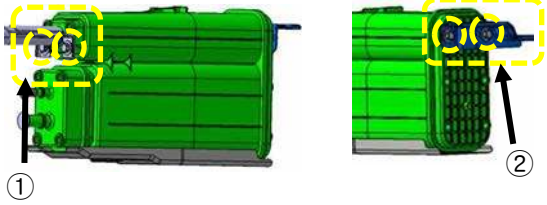
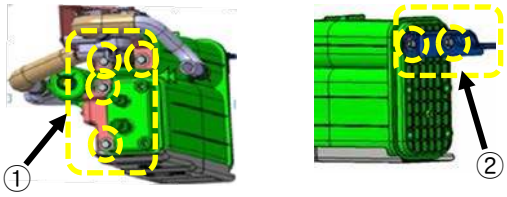
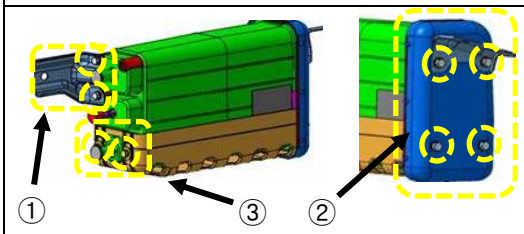
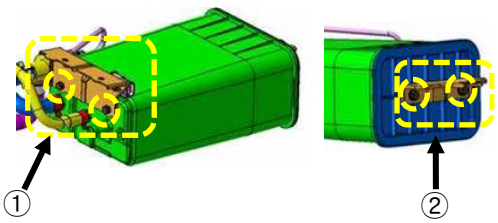
1. Refer to table on page 5 and install vehicle appropriate new bracket kit to the canister. Install in order of bolt → bracket → rubber washer → canister.
   Tightening torque:
   3.7 ~ 4.3 lb-ft (5.0 ~ 5.9 Nm)

New Bracket Installing position information by vehicle.	
	
Optima (TF) SULEV, (TF) ULEV	**Optima (TF HEV)**
	
Rondo (UN)	**Sedona (VQ)**

2. Apply Valugard Aerosol Undercoat (UM010 CH044) around the bolt, washer and area behind bracket around the nut insert.

Undercoat application areas. (all models)		
		
Rear of the bracket	**Bolt head**	**Side of the bolt head**
		
Areas for undercoat application		**Valugard Aerosol Undercoat UM010 CH044**

SUBJECT: EVAPORATIVE CANISTER INSPECTION AND/OR REPLACEMENT

Bolt tightening location	Insert Nut	Rubber Washer	Heat Shield	Bracket
 **Optima (TF) SULEV**			N/A	
①. Insert Nut + Rubber Washer + Bracket(Previous) ②. Insert Nut + Rubber Washer + Bracket(New)				
 **Optima (TF) ULEV**			N/A	
①. Insert Nut + Rubber Washer + Bracket(Previous) ②. Insert Nut + Rubber Washer + Bracket(New)				
 **Optima (TF HEV)**			N/A	
①. Insert Nut + Rubber Washer + Bracket(Previous) ②. Insert Nut + Rubber Washer + Bracket(New)				
 **Rondo (UN) SULEV, Rondo (UN) ULEV**				
①. Insert Nut + Rubber Washer + Bracket(New) ②. Insert Nut + Rubber Washer + Heat Shield + Bracket (Previous). ③. Insert Nut + New Bolt(No Rubber Washer)				
 **Sedona (VQ)**			N/A	
①. Insert Nut + Rubber Washer + Bracket(Previous) ②. Insert Nut + Rubber Washer + Bracket(New)				

3. Reinstall the canister assembly following the published service information procedure.

4. Start engine and clear any related DTC's (P0442, P0455.)

SUBJECT: EVAPORATIVE CANISTER INSPECTION AND/OR REPLACEMENT

Canister Replacement

1. When cracks are present around insert nuts, replace canister with appropriate canister kit listed in the parts information on the following pages.

Note: When replacing canister kit, DO NOT use rubber washer and undercoating spray.

2. Installation is reverse of removal procedure. Reuse original bracket(s).
3. Start engine and clear any related DTC's (P0442, P0455.)

For California, Connecticut, Maine, Maryland, Massachusetts, New Jersey, Oregon, Pennsylvania, Rhode Island, Vermont, Washington, New York and Delaware:

VEHICLE EMISSION RECALL - PROOF OF CORRECTION CARD

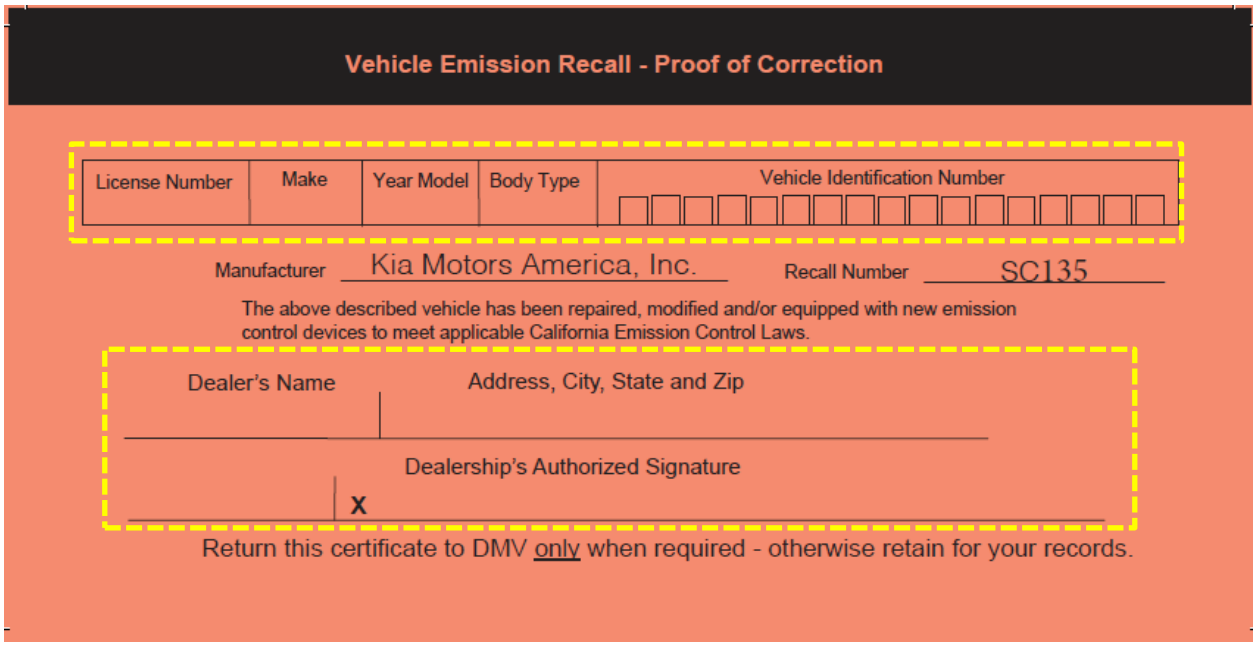
A Vehicle Emission Recall - Proof of Correction card must be filled out for all vehicles registered in California, Connecticut, Maine, Maryland, Massachusetts, New Jersey, Oregon, Pennsylvania, Rhode Island, Vermont, Washington, New York and Delaware. Residents of these states, who own an affected vehicle, will be required to possess a Vehicle Emission Recall - Proof of Correction card as evidence of voluntary service campaign completion, when they apply for vehicle registration renewal.

WHAT TO DO WITH THE CARD:

The Vehicle Emission Recall - Proof of Correction card must be completed by the Dealership's Service Manager using a permanent ink pen. A fine point pen is recommended. When filling in the information, copy the information directly from the vehicle, not the repair order. **ALL INFORMATION MUST BE PRINTED AND NEAT.**

NOTE: DO NOT COMPLETE THE CARD UNLESS THE SERVICE CAMPAIGN WORK IS COMPLETED.

The copy of the card shown below indicates the areas to be filled in. Each area must be filled in.



SUBJECT: EVAPORATIVE CANISTER INSPECTION AND/OR REPLACEMENT

FILLING OUT AND APPLYING THE CAMPAIGN COMPLETION LABEL:

The dealer must fill in the Dealer Code and Date information fields on the Campaign Completion Label. Once complete, affix the campaign completion label under the hood of the vehicle, as shown below.

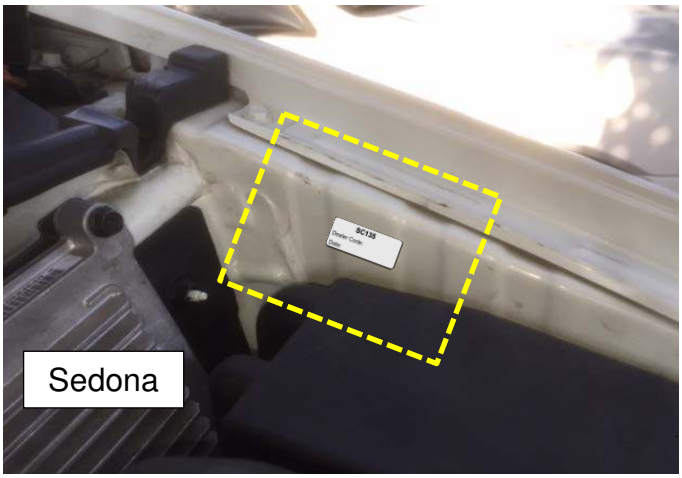
Apply SC 135 Campaign Completion Label onto the body in the area next to the shock tower, as shown. **NOTE: Be sure to clean the mounting surface to ensure proper label adhesion.**

★ NOTICE

Both the Proof of Correction Card and the Campaign Completion Sticker should ONLY be applied to vehicles in the 13 States listed on page 6.





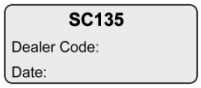


SUBJECT: EVAPORATIVE CANISTER INSPECTION AND/OR REPLACEMENT

AFFECTED VEHICLE PRODUCTION RANGE:

Model	Production Date Range
Optima (TF)	From September 2, 2010 through November 29, 2014
Optima Hybrid (TF HEV)	From February 15, 2011 through November 29, 2014
Rondo (UN)	From April 1, 2009 through July 30, 2010
Sedona (VQ)	From April 1, 2009 through June 17, 2014

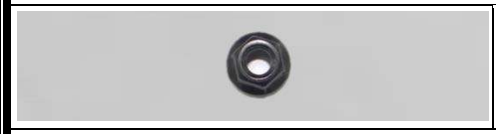
REQUIRED PARTS:

Part Name	Part No.	Qty.	Figure	Comments
Valugard Aerosol Undercoat	UM010 CH044	1		For Bracket Kit Installation Only. One can will cover at least 20 vehicles. Order Through Kia Chemicals.
SC135 COMPLTN LABEL	UM000 SC135	1		Apply only to vehicles in the 13 States listed on page 6
SC135 COMPLTN CARD	UM111 SC135	1		Apply only to vehicles in the 13 States listed on page 6

SUBJECT: EVAPORATIVE CANISTER INSPECTION AND/OR REPLACEMENT

PART NAME (MODEL)	NEW PART NUMBER	REMARKS
BRACKET KIT Optima (TF)	 31450 2T609QQK(SULEV)  Order (3EA) 11254 08206KQQK	Bracket will include bolts and washers as indicated in the picture. Additional bolts are required to be ordered separately by quantity indicated shown under each bracket kit.
	 31450 2T509QQK(ULEV)  Order (3EA) 11254 08206KQQK	
BRACKET KIT Optima (TF HEV)	 31450 4R509QQK(HEV)  Order (3EA) 11254 08206KQQK	

SUBJECT: EVAPORATIVE CANISTER INSPECTION AND/OR REPLACEMENT

BRACKET KIT Rondo (UN)	 31450 1D509QQK(SULEV or ULEV)  Order (2EA) 11253 06206BQQK  Order (1EA) 13396 06007KQQK	Bracket will include bolts and washers as indicated in the picture. Additional bolts are required to be ordered separately by quantity indicated shown under each bracket kit.
BRACKET KIT Sedona (VQ)	 31450 4D509QQK  Order (1EA) 11403 06206BQQK  Order (2EA) 13395 06007BQQK	

SUBJECT: EVAPORATIVE CANISTER INSPECTION AND/OR REPLACEMENT

CANISTER KIT Optima (TF)	 31410 2T601QQK(SULEV)  Order (3EA) 11254 08206KQQK	Canister kit will include bolts and washers as indicated in the picture. Additional bolts (or nuts) are required to be ordered separately by quantity indicated shown under each canister kit. No bracket kit required when replacing canister.
	 31410 2T501QQK(ULEV)  Order (3EA) 11254 08206KQQK	
CANISTER KIT Optima (TF HEV) 11~12MY	 31410 4R501QQK(Feb 15, 2011~Dec. 28, 2012) **11~12MY**  Order (2EA) 11254 08206KQQK	

SUBJECT: EVAPORATIVE CANISTER INSPECTION AND/OR REPLACEMENT

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<td>CANISTER KIT Optima (TF HEV) CONT. 13~15MY</td>
<td>


31410 4R701QQK(Jan. 25, 2013~Nov. 29, 2014) 13~15MY
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11254 08206KQQK
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<td rowspan="2">Canister kit will include bolts and washers as indicated in the picture. Additional bolts (or nuts) are required to be ordered separately by quantity indicated shown under each canister kit. No bracket kit required when replacing canister.</td>
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<td>CANISTER KIT Rondo (UN)</td>
<td>


31420 1D601QQK(SULEV)
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11253 06206BQQK
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<tr><td></td><td>Order (1EA)</td></tr>
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13396 06007KQQK
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SUBJECT: EVAPORATIVE CANISTER INSPECTION AND/OR REPLACEMENT

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<td>CANISTER KIT Rondo (UN) CONT.</td>
<td>


31420 1D501QQK(ULEV)

 Order (2EA)

11253 06206BQQK

 Order (1EA)

13396 06007KQQK
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<td>CANISTER KIT Sedona (VQ)</td>
<td>


31420 4D501QQK

 Order (1EA)

11403 06206BQQK

 Order (2EA)

13395 06007BQQK
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</table>

SUBJECT: EVAPORATIVE CANISTER INSPECTION AND/OR REPLACEMENT

WARRANTY INFORMATION:
N CODE: N99 C CODE: C99

Claim Type	Causal P/N	Qty.	Model	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
R	31410 3R500	0	Optima (TF)	Inspection + Canister Assembly Replacement	160037R0	0.7 M/H	31410 2T501QQK **(ULEV)**	1
							11254 08206KQQK (Bolt)	3
							31410 2T601QQK **(SULEV)**	1
							11254 08206KQQK (Bolt)	3
				Inspection + Bracket Kit Replacement	160037R1	0.7 M/H	31450 2T509QQK **(ULEV)**	1
							11254 08206KQQK (Bolt)	3
							31450 2T609QQK **(SULEV)**	1
							11254 08206KQQK (Bolt)	3
R	31410 4R700	0	Optima (TF HEV)	Inspection + Canister Assembly Replacement	160038R0	0.8 M/H	31410 4R501QQK **11~12MY** (Production Date on/before 12/28/12)	1
							11254 08206KQQK (Bolt)	2
							31410 4R701QQK **13~15MY** (Production Date between 01/25/13 and 11/29/2014)	1
							11254 08206KQQK (Bolt)	2
				Inspection + Bracket Kit Replacement	160038R1	0.8 M/H	31450 4R509QQK	1
							11254 08206KQQK (Bolt)	3

SUBJECT: EVAPORATIVE CANISTER INSPECTION AND/OR REPLACEMENT

Claim Type	Causal P/N	Qty.	Model	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
R	31420 1D500	0	Rondo (UN)	Inspection + Canister Assembly Replacement	160039R0	0.5 M/H	31420 1D501QQK **(ULEV)**	1
							11253 06206BQQK (Bolt)	2
							13396 06007KQQK (Washer)	1
							31420 1D601QQK **(SULEV)**	1
							11253 06206BQQK (Bolt)	2
							13396 06007KQQK (Washer)	1
				Inspection + Bracket Kit Replacement	160039R1	0.5 M/H	31450 1D509QQK	1
							11253 06206BQQK (Bolt)	2
							13396 06007KQQK (Washer)	1
R	31420 4D500	0	Sedona (VQ)	Inspection + Canister Assembly Replacement	160040R0	0.4 M/H	31420 4D501QQK	1
							11403 06206BQQK (Bolt)	1
							13395 06007BQQK (Washer)	2
				Inspection + Bracket Kit Replacement	160040R1	0.5 M/H	31450 4D509QQK	1
							11403 06206BQQK (Bolt)	1
							13395 06007BQQK (Washer)	2

Note: use sublet code X1 for reimbursement of underbody coating ($0.50 per vehicle) on Bracket Kit Replacement Labor Op codes only.