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ROADSTER Fuel Pressure Regulator Noise - 120183

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Language

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On 2013 RT models, following the installation of the 2013-10 safety warranty bulletin fuel system parts and under certain operating conditions a high pitched noise may be heard coming from the fuel pressure regulator. On 2015 RS and ST CARB models this can also happen.

Type:

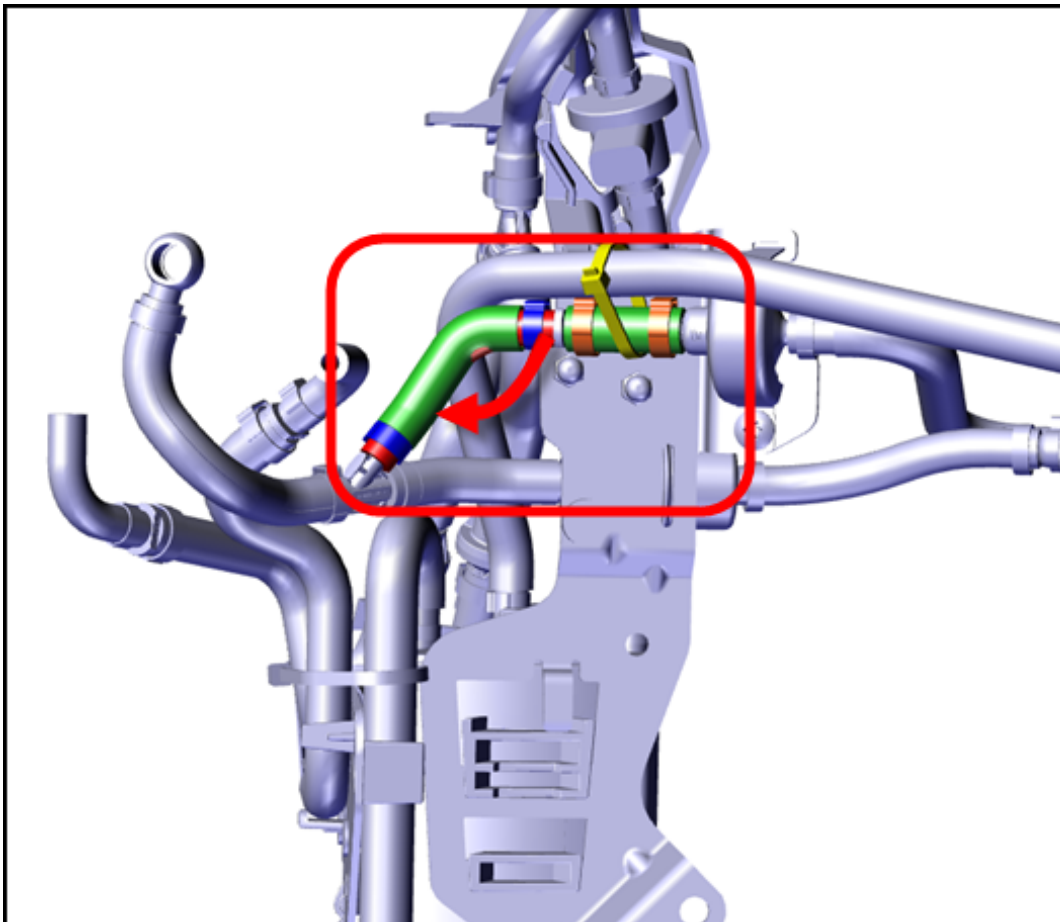
General

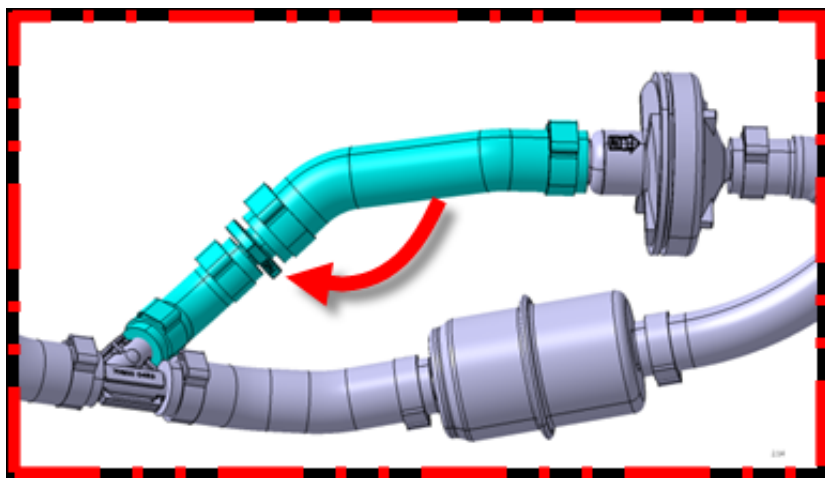
TST Detail:**Problem:**

A high pitched noise may be heard from the fuel pressure regulator when the unit is at operating temperature and running at idle. This noise is sometimes mistaken for a fuel pump noise.

Solution:

The noise can be eliminated by moving the hose flow reducer/connector away from the pressure regulator.





Diagnostic:

Conditions for noise to be present:

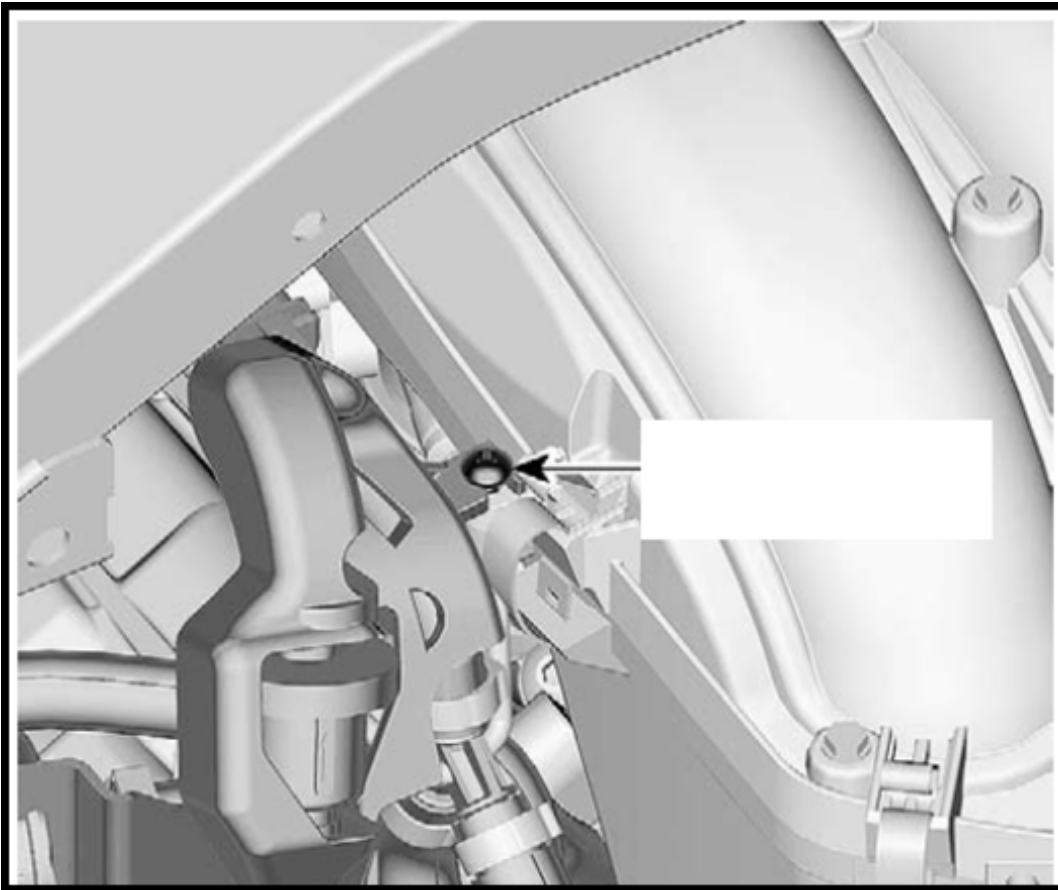
- Engine compartment has reached normal operating temperature - warmed up - running for a while.
 - Engine at idle (lots of fuel being regulated)
 - Warm engine with key ON (no start), pump primes and makes noise.
1. Activate the fuel pump with key ON and toggle the engine stop switch to confirm the fuel pressure regulator is producing the noise or vibrating by touching it with finger or getting close to it.
 2. Refer to the video to confirm the noise.

Parts Needed:

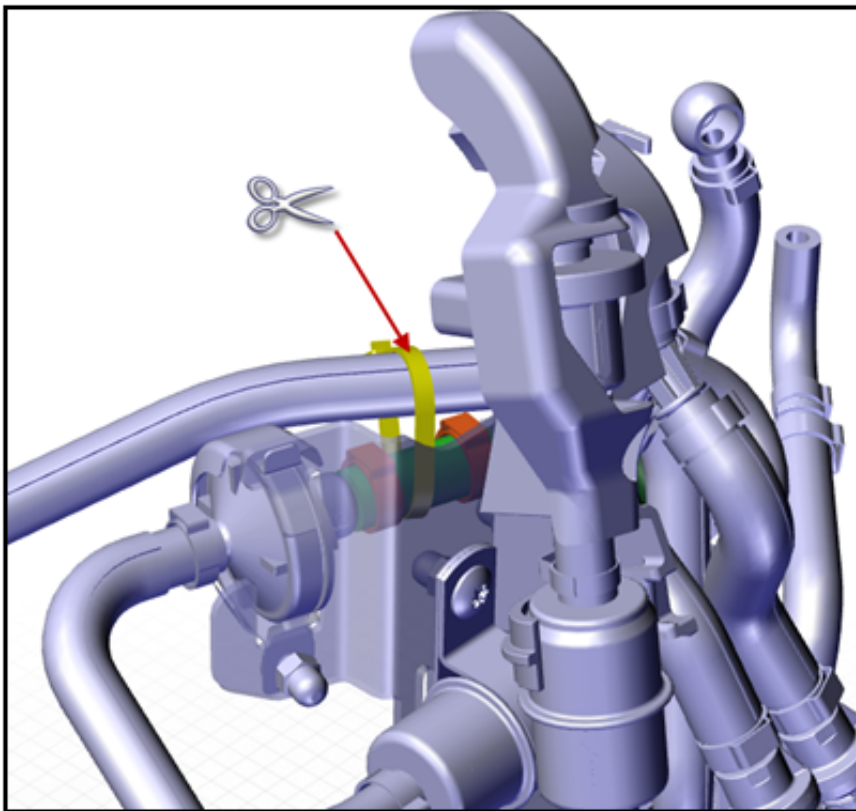
Description	Part Number	Qty
Clamp (18.5)	293650030	2
Clamp (14.5)	293650046	1
Fuel hose 9.53 mm (3/8")	709000801	1
Tie Rap 188 mm	414115200	1
Protector tube	276000214	1

Repair Procedure:

1. Remove right hand top side panel. See shop manual for procedure.
2. Remove right hand tank cover. See shop manual procedure.
3. Disconnect fuel pump connector and release pressure from fuel line by cranking the engine few times.
4. Disconnect battery.
5. Loosen screw and pull evaporative assembly out to give more access to fuel pressure regulator line.



6. Remove tie rap.

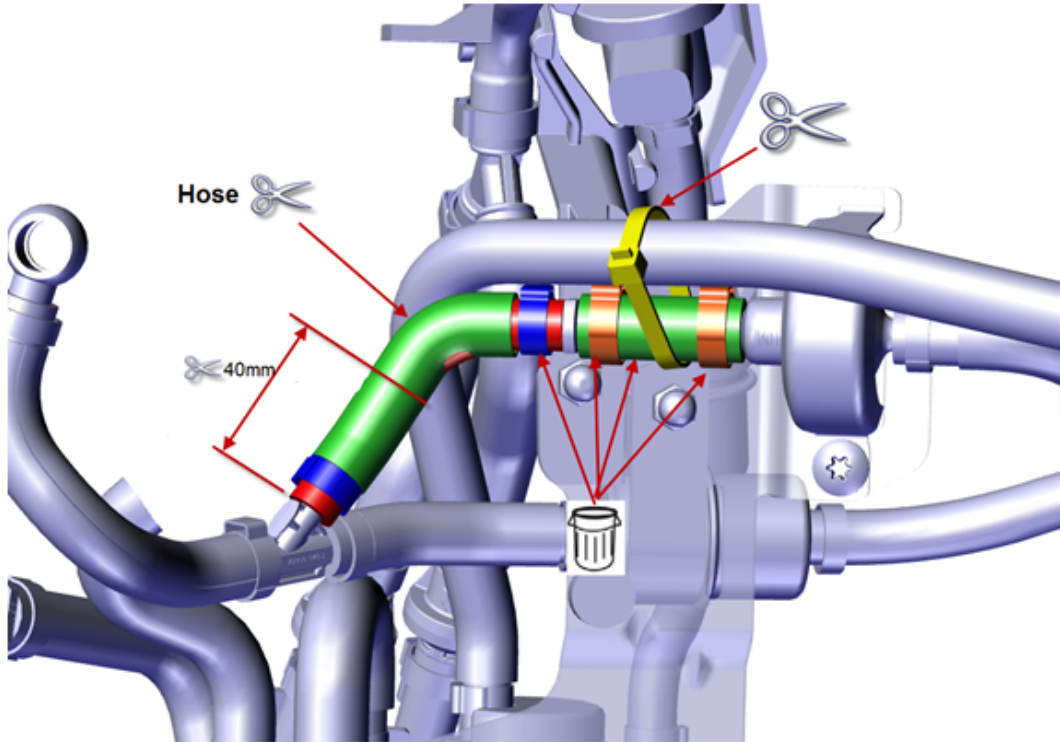


7. Remove fuel pressure regulator support to free fuel pressure regulator. Keep support, nut and screw.
8. Remove protective tube between "Y" connector and fuel pressure regulator.
9. **Use precaution when performing the next steps to avoid cracking the "Y" fitting.**
10. Remove and discard 3 clamps, 2 from each side of the hose flow reducer/connector and 1 from the fuel

pressure regulator. See image below.

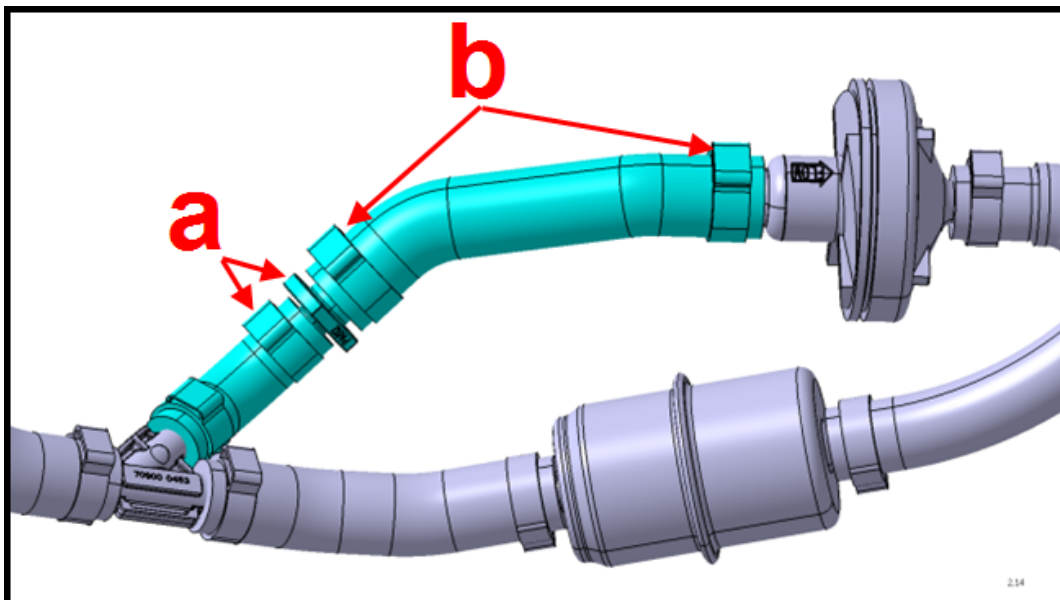
11. Use a rag to prevent fuel spill, and pull the hose from the fuel pressure regulator with hose flow reducer/connector. Keep hose flow reducer/connector.
12. Cut remaining hose at 40 mm from the "Y" connector.

a. Use removed hose as length reference (it's a 40 mm hose).



12. Install parts as indicated:

- a. Flow reducer/connector with hose from "Y" fitting (previously cut to 40 mm) and 1 clamp 293650046 (14.5).
- b. New fuel hose 709000801 between flow reducer/connector and regulator with 2 clamps 293650030 (18.5).
- c. New protector tube 276000214 over hose from "Y" connector to fuel pressure regulator.



13. Install fuel pressure regulator in its support using nut and screw previously removed. Torque nut to 5 ± 1 Nm (44 ± 9 lbf-in).
14. Install a new tie rap in the same location as previously removed.

15. Replace evaporative assembly into position, attach it to air box using the torx screw loosened previously and torque to $2.5 \pm 0.5\text{Nm}$ (22 ± 4 lbf-in).
16. Connect fuel pump and battery.
17. Turn the key ON and toggle the engine stop switch to confirm fuel pressure regulator noise is normal. Confirm no fuel leaks are present.
18. Install right hand fuel tank cover. See shop manual for procedure.
19. Install right hand top side panel. See shop manual for procedure.

Warranty:

Claim under regular warranty.

If the vehicle is no longer under regular warranty, submit the claim despite the yellow warning in BOSSWeb and it will be acknowledged manually within a few days.

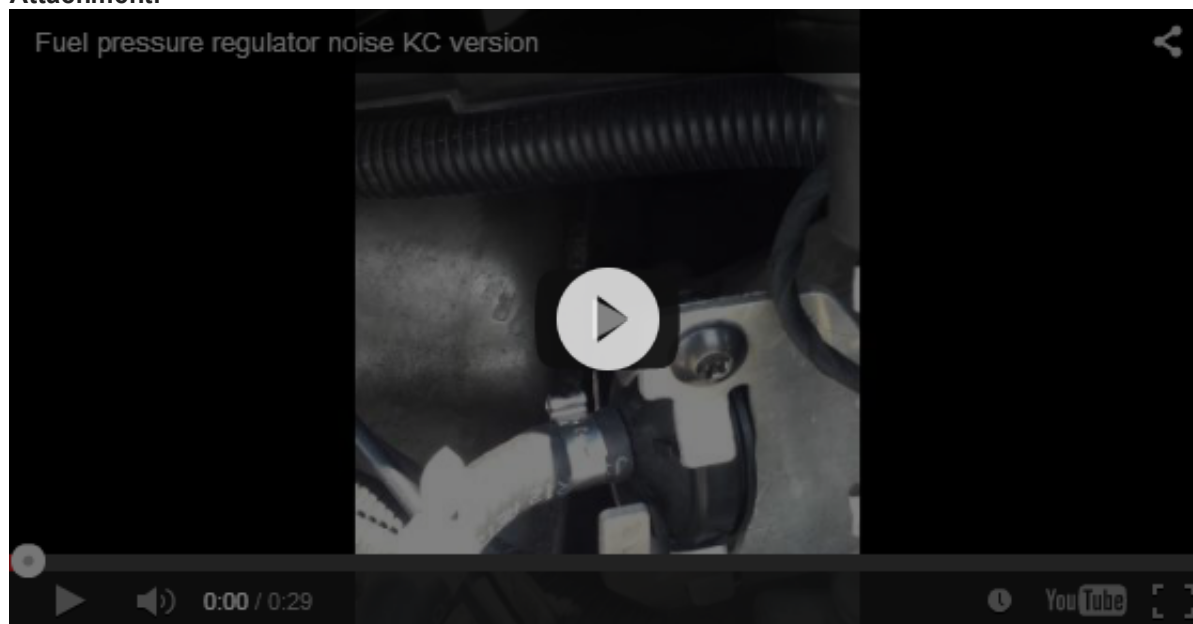
System: 02

Job: 127

Flat Rate: 0.3 hr

Trouble Part: 709000671

Attachment:



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Last Modified By: Dany Davey on 2015-10-29