



# Technical Service Bulletin

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## 01 Engine hesitation, various warning lights on

01 16 90 2046007/1 November 30, 2016.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A6	2016	000001 - 178135	4 cylinder engines

## Condition

Customer may report one of the following:

- Engine hesitation
- Instrument cluster displays yellow EPC light

One or more of the following DTC's are present, note DTC's maybe static or sporadic:

- Address 0019 (databus diagnostic interface):
  - U010000 engine control unit, no communication
- Address 0001 (engine control unit):
  - P022200 angle sender 2 for throttle valve drive, signal too small
  - P063800 throttle valve module, implausible signal
  - P022100 angle sender 2 for throttle valve drive, implausible signal
  - P063800 throttle valve module, implausible signal
  - P064200 sender reference voltage A too small
  - P00B700 engine cooling insufficient
  - U012100 ABS control unit, no communication
  - U041500 ABS control unit, implausible signal
  - U10BD00 ABS control unit on Flexray data bus, no communication

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## Technical Background

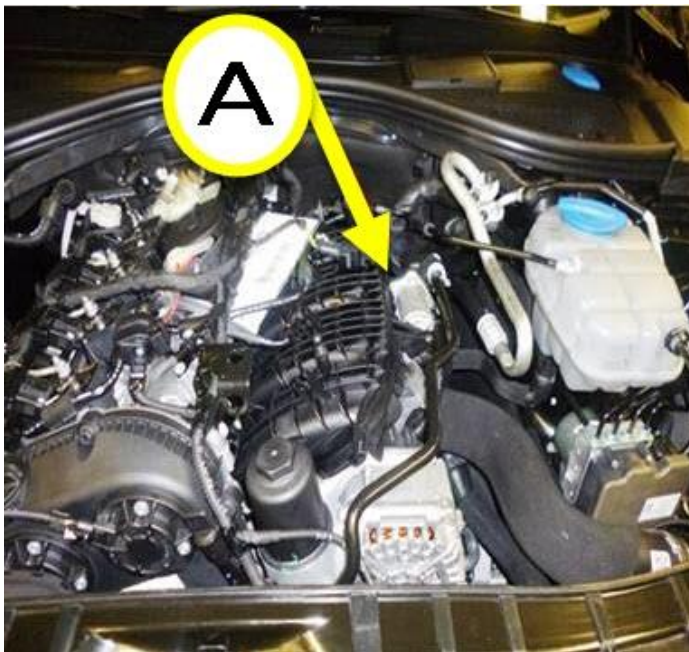
The engine wiring harness may come into contact with an engine coolant hose clamp.

## Production Solution

Modified harness.

## Service

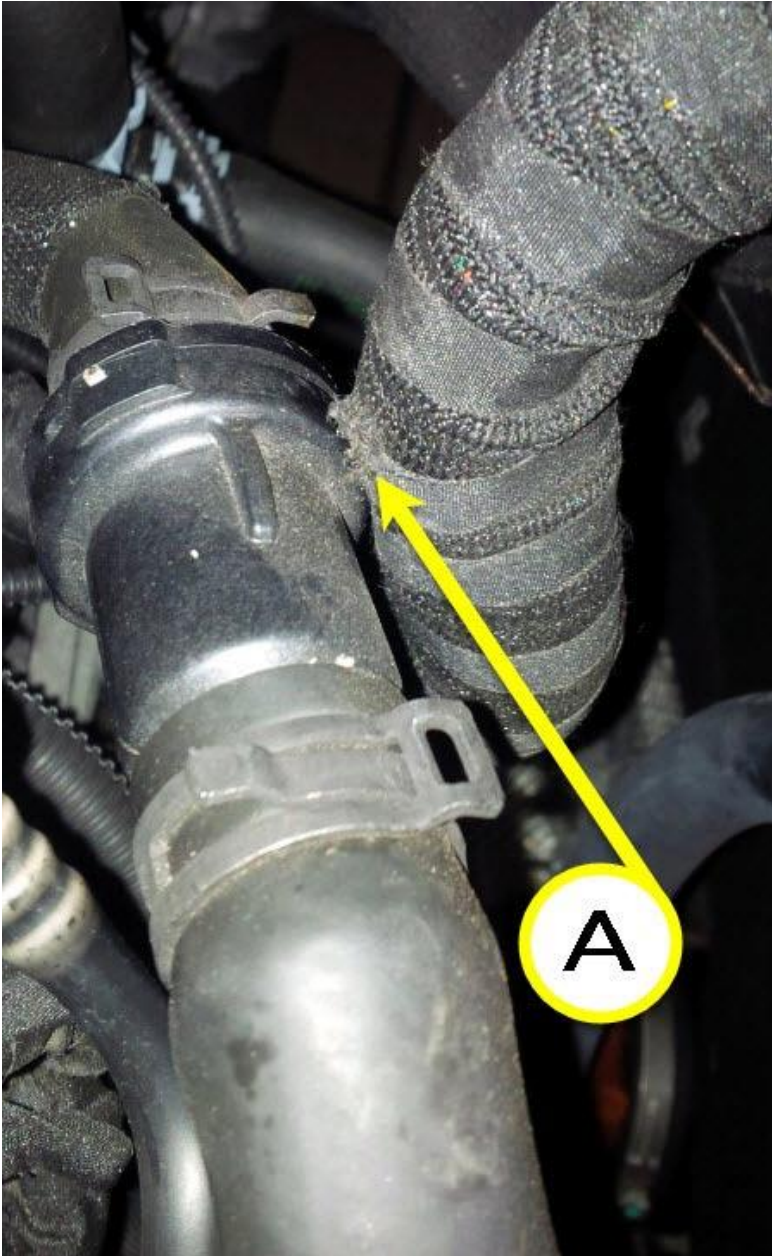
1. Validate customer concern:
  - If customer concern corresponds with information provided in the Condition section of this TSB, then continue. If not, perform diagnostics outside of this TSB.
2. Inspect the engine harness for possible damage. Location shown in Figure 1 and Figure 2.



*Figure 1. Inspect the engine wire harness in location (A).*

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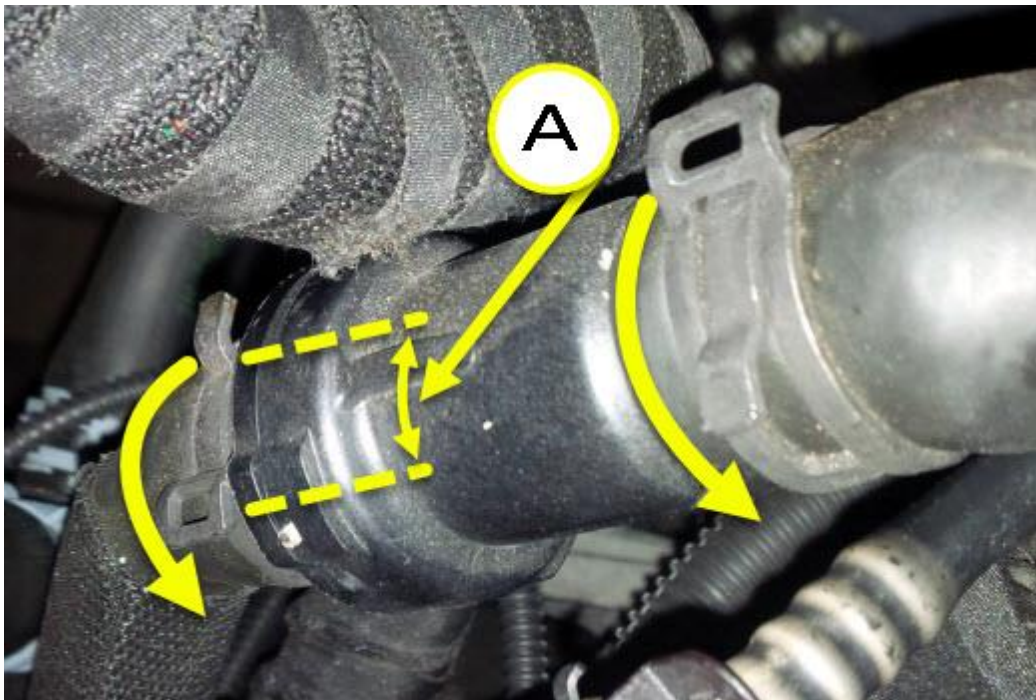


*Figure 2. Location of possible harness damage (A) from contact with coolant clamp.*

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3. If damage is found to wiring, repair all damaged wires inside the harness:
  - Consult the repair manual for instructions on harness repair with the VAS1978 Wiring Harness Repair Set.
  - Wrap the repaired section of the wiring harness with Cloth Webbed Adhesive Tape (N10592002).
4. Rotate the coolant clamps 25 degrees counter clockwise, so the tabs face away from the engine harness (Figure 3).



**Figure 3.** Rotate both upper and lower coolant clamps 25 degrees counter clockwise (A), so the tabs of the coolant clamps face away from the engine harness.

5. Reposition Engine Harness:
  - Remove the retaining clip (Figure 4A) from the firewall and the harness.
  - Place new retaining clip (3D0971838A) onto the firewall.
  - Position the harness to allow for a 10mm gap between the coolant pipe and the harness (Figure 4B).

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- Secure the retaining clip onto the harness, so the harness maintains the gap.



**Figure 4.** Remove the retaining clip (A) from the firewall and the harness. Place new retaining clip (part number: 3D0971838A) onto the firewall. Position the repair harness so that maintains a 10mm gap (B) between the harness and the coolant pipe. Secure the new retaining clip to the repaired engine harness.



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## Warranty

<b>Claim Type:</b>	<ul style="list-style-type: none"> <li>• 110 up to 48 Months/50,000 Miles.</li> <li>• G10 for CPO Covered Vehicles – Verify Owner.</li> <li>• If vehicle is outside any warranty, this Technical Service Bulletin is informational only.</li> </ul>		
<b>Service Number:</b>	9713		
<b>Damage Code:</b>	0025		
<b>Labor Operations:</b>	Cover remove + reinstall	1083 1900	20 TU
	Modify routing of engine wire harness	9752 0599	10 TU
	Central wiring harness repair (Dependent on number of cables repaired)	9709 41XX	Time according to repair manual
<b>Diagnostic Time:</b>	GFF	0150 0000	Time stated on diagnostic protocol (Max 60 TU)
	Road test prior to service procedure	No allowance	0 TU
	Road test after service procedure	0121 0004	10 TU
	Technical diagnosis at dealer's discretion (Refer to Section 2.2.1.2 and Audi Warranty Online for DADP allowance details)		
<b>Claim Comment:</b>	As per TSB #2046007/1		

All warranty claims submitted for payment must be in accordance with the *Audi Warranty Policies and Procedures Manual*. Claims are subject to review or audit by Audi Warranty.

## Required Parts and Tools

Part Number	Part Description	Quantity
3D0971838A	Retaining Clip	01



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N10592002	Cloth Webbed Adhesive Tape	Consumable; accounting under warranty/goodwill not permitted.
VAS1978	Wire repair kit	

## Additional Information

All parts and service references provided in this TSB (2046007) are subject to change and/or removal. Always check with your Parts Department and service manuals for the latest information.

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