



# Technical Service Bulletin

## 20 MIL on (DTC P310B - Low fuel pressure regulation / pressure out of specification)

20 17 89 2043758/5 May 24, 2017. Supersedes Technical Service Bulletin Group 20 number 16-76 dated August 18, 2016 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A4	2012 - 2016	All	2.0L and 3.0L engine
A6, A7,	2012 - 2018	All	2.0L and 3.0L engine
A5, A5 cabriolet, Q5	2012 - 2017	All	2.0L and 3.0L engine

## Condition

REVISION HISTORY		
Revision	Date	Purpose
5	-	Revised header data (Added models) Revised <i>Warranty</i> (Added time for installing fuel kit and for a Road Test. Removed time for checking low pressure and fuel delivery rate) Revised <i>Service Solution</i> (Updated procedure)
4	08/18/2016	Revised <i>Warranty</i> (Updated time for checking low fuel pressure and fuel delivery rate)
3	08/02/2016	Revised <i>Warranty</i> (Added time for checking fuel pressure and delivery rate)

- MIL on.
- Customer has problems starting the car.
- The issue usually occurs when the temperature outside is around 105°F or higher, after start-stop journeys with longer idle speed phases and a hot engine.

## Technical Background

Vapors in fuel system.



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## Production Solution

Not applicable.

## Service

If **DTC P310B** (Low fuel pressure control, fuel pressure outside tolerance) stored in the engine control module (ECM), J623 (address word 0001) with one of the following symptom codes:

- Symptom code 6183 for 3.0 TFSI.
- Symptom code 2636 and/or 2637 for 2.0 TFSI.

Intake air temperature is usually above 140°F (60°C) in the freeze frame data of the diagnostic log.

Proceed as follows:

1. Remove the fuel delivery unit according to the Repair Manual, *Workshop Manual >> Engine >> Fuel Supply Gasoline Engines >> 20 Fuel Supply >> Fuel Delivery Unit >> Fuel Delivery Unit Removing and Installing.*



### Warning:

Danger due to escaping fuel. To prevent large quantities of fuel from leaking from the fuel delivery unit when removing, the fuel tank may only be a maximum of ¼ full

2. Install the kit in the fuel delivery module.

The repair kit for fuel delivery module has the following parts:

- Control Valve “A.” (Figure 1)
- Control Valve “B” (Figure 2)
- Hose (Figure 3)



**Figure 1.** Control Valve “A.”

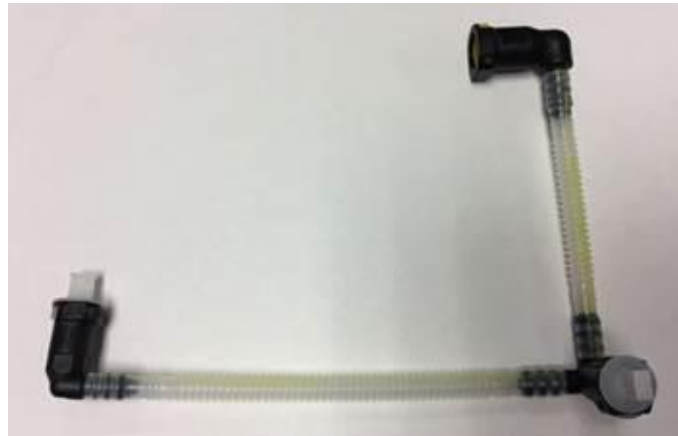


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*Figure 2. Control Valve "B."*



*Figure 3. Hose.*



**Note:**

There are 3 different designs for Control Valve Type B.

- Type B1: Part has to be modified at the dealership (cut the red area described in the picture). Make sure there is no plastic debris inside or outside the valve.
- Type B2: no modification has to be performed, ready for installation.
- Type B3: no modification has to be performed, ready for installation.



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Type: B1

Cut the area marked in red.



**Figure 11.** Cut the area marked in red.

Type: B2

No modifications are necessary.



**Figure 12.** Do not modify.



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Type: B3

No modifications are necessary.



**Figure 13.** Do not modify.

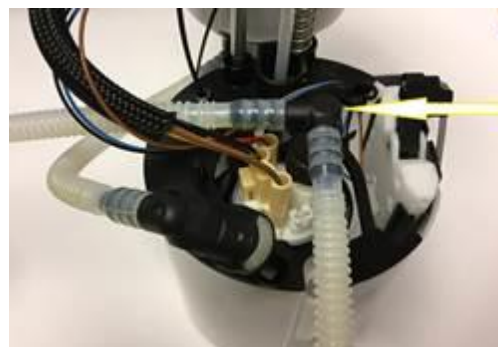
Follow the next steps to install the kit in the fuel delivery module:

- 2.1 With the fuel delivery unit outside the vehicle, disconnect the main supply line (Figure 4).



**Figure 4.** Disconnect the main supply line.

- 2.2 Install the hose supplied in the kit according to the picture below:



**Figure 5.** Install the hose.



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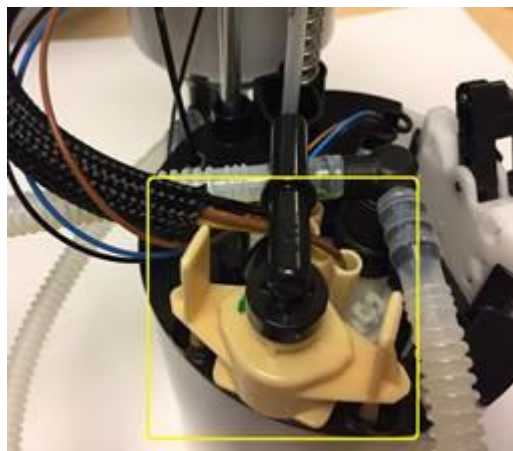
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2.3 Install Control Valve “B” in the marked area. Push it until a ‘click’ noise is heard (Figure 6).



*Figure 6. Install Control Valve “B”.*

2.4 Control Valve “B” installation position (Figure 7).



*Figure 7. Correct position for Control Valve “B”.*

2.5 Install Control Valve “A” as shown in the picture (Figure 8).



*Figure 8. Install Control Valve “A”.*



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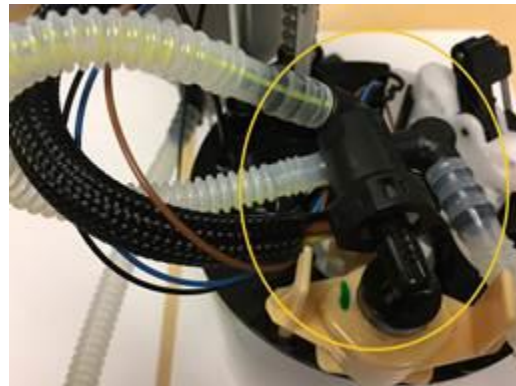
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- 2.6 Connect the remaining line to the Control Valve “B” (Figure 9).



**Figure 9.** Connect remaining line.

- 2.7 Final installation position for Control Valve “B” (Figure 10).



**Figure 10.** Final position for Control Valve “B.”

3. Install the fuel delivery module in the vehicle according to Elsa at Repair Manual, *Workshop Manual* >> *Engine* >> *Fuel Supply Gasoline Engines* >> *20 Fuel Supply* >> *Fuel Delivery Unit* >> *Fuel Delivery Unit Removing and Installing*.
4. Start the vehicle.
5. Check for leaks.
6. Clear all DTC`s.
7. Test drive the vehicle.

As a reference, find below videos with installation procedure for each type of vehicle.



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Before attempting the repair for the A6 and A7, please review the video of the repair procedure: <https://audi-external.kzoplatform.com:443/swf/player/340> (Figure 13).



*Figure 13. QR code for supporting video.*

Before attempting the repair for the Q5, please review the video of the repair procedure: <https://audi-external.kzoplatform.com:443/swf/player/338> (Figure 14).



*Figure 14. QR code for supporting video.*





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Before attempting the repair for the A4 and A5, please review the video of the repair procedure: <https://audi-external.kzoplatform.com:443/swf/player/339> (Figure 15).



Figure 15. QR code for supporting video.



**Note:**

The procedure described above can be performed only with the DTC and symptom codes described previously.

If DTC P310B is present with a different symptom code, proceed with normal diagnosis.

## Warranty

<b>Claim Type:</b>	<ul style="list-style-type: none"> <li>• 110 up to 48/50</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>	2066		
<b>Damage Code:</b>	0040		
<b>Labor Operations:</b>	<b>For A4, A5, A5 cab,Q5:</b>		
	Electric fuel pump remove + reinstall	2066 1900	130 TU
	<b>For A6 and A7:</b>		
	Electric fuel pump remove + reinstall	2066 1950	20 TU



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	Fuel drain + fill	2003 1700	110 TU
	<b>For all models:</b>		
	Install repair kit for fuel delivery module	2066 9999	30 TU
<b>Diagnostic Time:</b>	GFF	0150 0000	Time stated on diagnostic protocol (Max 30 TU)
	Road test before 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 #2043758/5		

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
See ETKA	Seal	01
See ETKA	CAP ( if necessary only )	01
8K0298112G	Repair kit for fuel delivery module	01

## Additional Information

All parts and service references provided in this TSB (2043758) are subject to change and/or removal. Always check with your Parts Department and service manuals for the latest information.

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