



# Technical Service Bulletin

## MIL on (DTC P0642, P2004, P2008, P3137, P3138 in ECM)

24 08 10 2016868/2 March 3, 2008. Supersedes Technical Service Bulletin Group 24 number 08-02 dated Jan. 17, 2008 to add a reference to RVU CH.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A3	2005 – 2007	All	2.0 TFSI Engine
A4	2005 – 2007	All	
A4 Cabriolet	2007	All	
TT	2008	All	

## Condition

- MIL on.
- One or more of the following DTCs is stored in the ECM data memory:
  - **DTC P0642** (Sensor Voltage Circuit A, Low Voltage)
  - **DTC P2004** (Intake Manifold Runner Control Bank 1, Stuck Open)
  - **DTC P2008** (Intake Flap for Airflow Control, Electrical Malfunction)
  - **DTC P3137** (Intake Manifold Runner Control Circuit Bank 1, Basic Settings not Carried Out)
  - **DTC P3138** (Intake Flap for Airflow Control, Control Difference)

## Technical Background

- ECM software.
- The Intake Flap Motor V157 or Intake Manifold Runner Position Sensor G336 may be inoperative. (Both are included in one single unit.)

## Production Solution

- Optimized the ECM software (same as RVU CH).
- Improved the manufacturing process for the Intake Flap Motor V157 and Intake Manifold Runner Position Sensor G336.

## Service

1. For A4 and A4 Cabriolet models with ECM SW Part No. **8E0 910 115 P** (early MY07), replace the Intake Flap Motor V157 and perform the basic settings (channel 142). Do not perform steps 2– 7. For all other vehicles proceed with the next steps.



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2. Check to see if RVU CH applies to the vehicle and if it has been performed. The ECM software update below is identical to the procedure described for RVU CH.

If RVU CH applies to the vehicle and it has not been performed, perform RVU CH first. (See also RVU CH for more details.)

3. Check the ECM to ensure it has not been tuned.



**Note:**

Any Update Programming procedure (flash) may overwrite any tuned ECM or TCM programming. A *tuned* ECM or TCM is described as any ECM or TCM altered so as to perform outside the normal parameters and specifications approved by Audi of America, Inc.

**Current Tuned ECM or TCM Requirements**

If you encounter a vehicle with a tuned ECM or TCM, your dealership must do the following before performing any procedure that updates ECM or TCM programming:

- a. Notify the owner that their ECM or TCM was found to have been tuned.
  - b. Notify the owner that any damage caused by the tuning of the ECM or TCM (including any adverse emissions consequences) will not be covered by Audi of America, Inc. warranties.
  - c. Obtain the owner's written consent (see attached Control Module Tuning form) for any requested repair - under warranty *or* outside warranty - that requires flashing that will automatically overwrite the tuned program.
4. Update the ECM.
    - a. If the vehicle has a tuned ECM or TCM, ensure the Control Module Tuning form has been filled out by the owner.
    - b. Check the software part number and software level in the Engine Control Module.
    - c. Prior to beginning the SVM process, insert a USB memory stick into the VAS 505X tester to capture the diagnostic log electronically.
    - d. For A4 (B7) always use the 6017B K-Line Adapter to ensure communication to all modules.

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- e. Update the Engine Control Module using the SVM action code as listed in the table below.



**Note**

Do *not* use a **6017** or **6017A** while flashing. Doing so may result in complete control module failure.



**Tip:** The SVM Process must be completed in its entirety so the database receives the update confirmation response. A warranty claim may not be reimbursed if there is no confirmation response to support the claim.



**Tip:** The electric cooling fan may be activated during the ECM updating procedure.

For further SVM update instructions and troubleshooting, please refer to the *SVM Operating Manual; ElsaWeb TSB 2011732*.

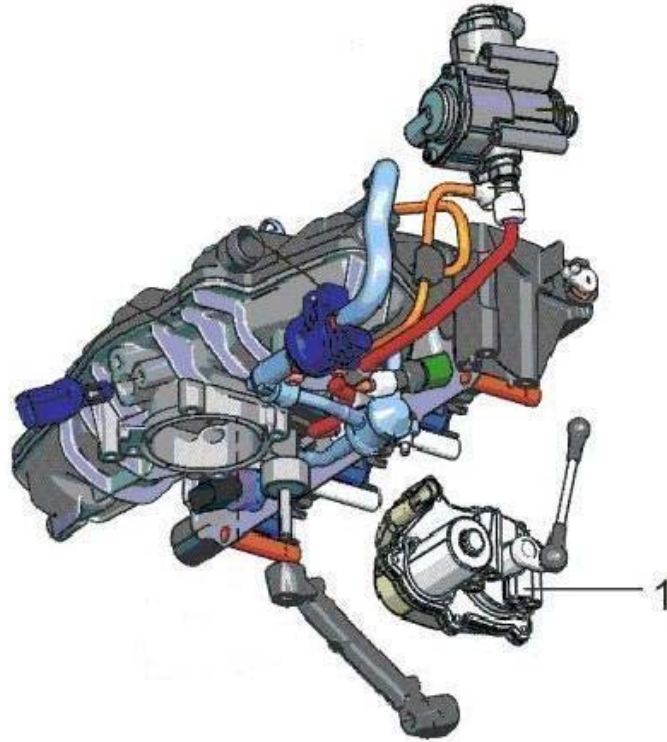
## Update the ECM

Model	Engine	Old Software Part Number	Old Software Version (or lower)	New Software Part Number	New Software Version (or higher)	SVM Action Code
A3	2.0 TFSI	8P0907115B	0070	8P0907115B	0080	NALBKA001
A3	2.0 TFSI	8P0907115G	any	8P0907115P	0010	NALBKA001
A4	2.0 TFSI	8E0910115B	0120	8E0910115B	0130	NALBKA001
A4	2.0 TFSI	8E0910115M	0060	8E0910115M	0070	NALBKA001
A4 A4 Cabrio	2.0 TFSI	8E1910115	any	8E1910115G	0010	NALBKA001
TT	2.0 TFSI	8J0907115B	0010	8J0907115B	0020	NALBKA001

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5. Perform basic settings for Intake Flap Motor V157 (channel 142).
6. If the basic settings for Intake Flap Motor V157 cannot be performed successfully, replace the Intake Flap Motor V157.
7. If one or more of the DTCs listed in the condition section are stored in the ECM data memory and the ECM SW was previously updated (the ECM already has the new SW version), replace the Intake Flap Motor V157 even if the basic settings can be performed successfully.



**Figure 1.** The Intake Flap Motor V157 (1).

## Warranty

When procedure applies to vehicles under warranty, use the following:

**For ECM software update:**

**SAGA**



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Claim Type:	110		
Part Identifier:	2465		
Damage Code:	0039		
Labor Operations:	2465 2599	ECM software update - A3	50 TU
	2465 2599	ECM software update - A4	70 TU
	2465 2599	ECM software update - TT	50 TU
Diagnostic Time:	Diagnostic time reimbursement follows guidelines printed in Section 2.2 of the <i>Audi Warranty Policies and Procedures Manual</i>		
Claim Comment:	As per TSB #2016868/2		
All warranty claims submitted for payment must be in accordance with the <i>Audi Warranty Policies and Procedures Manual</i> . Claims are subject to review or audit by Audi Warranty.			

## For Intake Flap Motor V157 replacement:

### SAGA

Claim Type:	110		
Part Identifier:	2465		
Damage Code:	0040		
Labor Operations:	2465 1917	Replacement of Intake Flap Motor V157	70 TU
Diagnostic Time:	Diagnostic time reimbursement follows guidelines printed in Section 2.2 of the <i>Audi Warranty Policies and Procedures Manual</i>		
Claim Comment:	As per TSB #2016868/2		
All warranty claims submitted for payment must be in accordance with the <i>Audi Warranty Policies and Procedures Manual</i> . Claims are subject to review or audit by Audi Warranty.			

## Required Parts and Tools



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Part Number	Part Description	Quantity
06F 133 482 D	Adjuster unit	1
06F 133 482	Adjuster unit Note: This Part No. is for MY05 and very early MY06 A4 2.0 TFSI with ECM Part No. 8E0 910 115 B <i>only</i> .	1

## Additional Information

The following Technical Service Bulletin will be necessary to complete this procedure:

- 2011732; Software Version Management (SVM) Operating Manual

All part and service references provided in this TSB are subject to change and/or removal. Always check with your Parts Dept. and service manuals for the latest information.



**Audi**

**OWNER INFORMATION ABOUT CONTROL MODULE TUNING\* ACKNOWLEDGEMENT AND AUTHORIZATION FOR REPROGRAMMING (REFLASHING) OF CONTROL MODULE(S)**

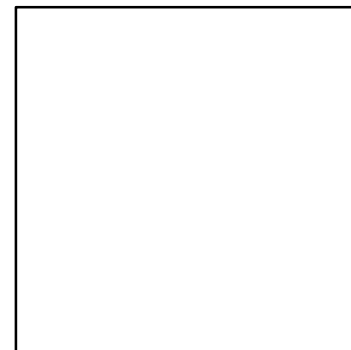
*\*) "TUNING" is described as the addition of or modification of any component which causes an Audi vehicle to perform outside the normal parameters and specifications approved by Audi of America, Inc..*

Date: \_\_\_\_\_

Dealer Number: \_\_\_\_\_

Vehicle Identification Number: \_\_\_\_\_

Repair Order Number: \_\_\_\_\_



Dealer stamp

I \_\_\_\_\_, owner or driver of the above identified Audi, confirm:

"Tuning" as described above (especially power increasing modifications) has NOT been performed on my vehicle.

"Tuning" as described above has been performed on my vehicle and the following components were modified or installed:

\_\_\_\_\_

TUNING was performed by (Please provide Company name and telephone number, if you wish us to contact them):

\_\_\_\_\_

I understand that if my Control Module is determined to have been tuned, any damage caused by the tuning of the Control Module (including adverse emissions consequences) will not be covered by Audi of America, Inc. warranties.

I am permitting an authorized Audi Dealer to reflash (update) my Control Module, and by doing so, I understand that this process will automatically overwrite (destroy) and permanently delete any tuning program that was previously installed on the Control Module of my Audi vehicle.

By signing below, I fully acknowledge and understand that the tuning program will not be restored and Audi of America, Inc., will not be liable in any way for the loss of tuning data.

\_\_\_\_\_  
Signature of Customer