

Torino - 08/03/2019

Recall Campaign

8238

BRAKE SYSTEM MODULE (BSM)

On a batch of Alfa Romeo Giulia and Stelvio vehicles, the chassis numbers of which are present in SiGi, because of incorrect implementation of the brake system module by the supplier, undesired acceleration of the vehicle may occur in exception and rare cases with Active Cruise Control on.

Therefore, action must be taken during pre-delivery inspections on vehicles still in stock operating according to the operating cycle to upgrade all vehicles. Customers will be contacted by registered mail (Annex 1).

BRAND	ALFA
MODEL	GIULIA - STELVIO
PRODUCTION PERIOD	All vehicles with chassis number listed in SiGi
PROBLEM / FAULT	Incorrect software calibration of the brake system module (BSM)
PLANNED OPERATION	SW update
SPECIAL TOOLS	• wiTECH 2.0 with registered micro POD II





REMUNERATION

Manpower and material	
Cost	A01
Campaign	8238
Operation	Time
A - Operation 1 - (Check)	0.20
B - Operation 1 + 3 - (Check + Update SW)	0.30
C - Operation 1 + 2 - (Check + Update SW)	0.80
Miscellaneous costs (mail, etc.)	
Cost	A10
Campaign	8238

OPERATING CYCLE

Operation 1 - Check brake system module (BSM)

Access vehicle view using the diagnosis tool.

IMPORTANT *If active, deactivate Logistic Mode.*

IMPORTANT *Before proceeding, perform a Scan Report and save a copy for further investigations.*

- Select the brake system module BSM and open the Flash tab.
- Check the installed software number.



According to the HW versions, if the installed SW is comprised between those listed below, perform the operations shown.

HW number	HW version	SW number	SW version	Perform
28554010353 28554010443 28554010535	00	XJ_RAL00164	83C1	Operation 2
	00	XJ_RAK00479	8383	
	00	XJ_RAK00496	8382	
	00	XJ_RAK00479	8382	
	00	XJ_RAK00479	8381	
	00	XJ_RAK00478	8381	
	00	XJ_RAJ00430	8343	
	00	XJ_RAJ00428	8343	
	00	XJ_RAJ00370	8342	
	00	XJ_RAJ00314	8342	
	00	XJ_RAL00165	83C1	
	00	XJ_RAJ00480	8343	
28554010535 28554057115	00	XJ_RAN00010	8401	Operation 3
	00	XJ_RAP00046	8441	
	00	XJ_RAT00007	84C1	
	00	XJ_RAS00023	8481	
	00	XJ_RAS00042	8482	

If the installed SW, according to the HW versions, is the one listed below, no software updates are necessary:

HW versions 353 - 443

SW number	SW version
XJ_RAX00007	8541

HW versions 535

SW number	SW version
XJ_RAX00007	8541
XJ_RAW00010	8502

HW version 115

SW number	SW version
XJ_RAY00006	8581

In this case, disconnect the diagnostic tool and release the vehicle.



Operation 2

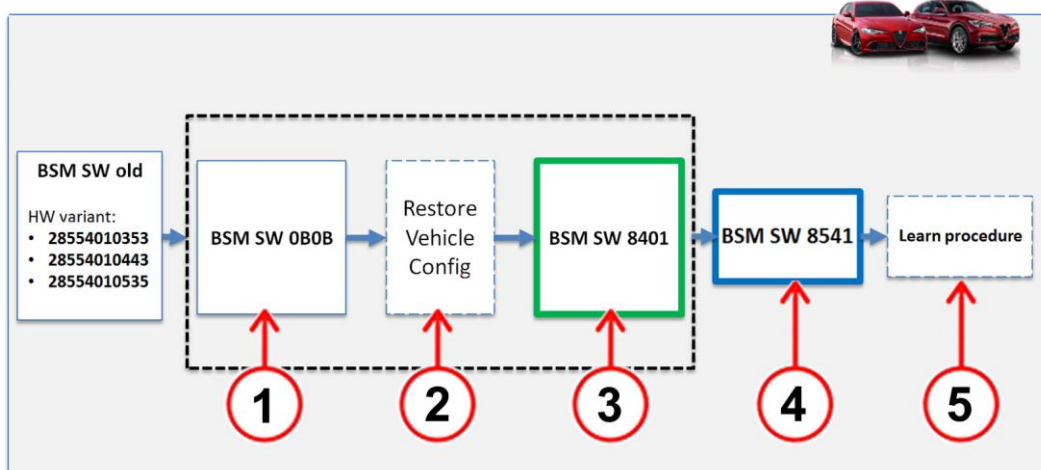
Three reprogramming operations are required to update the brake system module (BSM) software.

The procedures are as follows:

- **Step 1** - First reprogramming procedure to update the SW to version 8B0B.
- **Step 2** - Restore Vehicle Configuration.
- **Step 3** - Second reprogramming procedure to update the SW to version 8401.
- **Step 4** - Third (final) procedure to update the SW to version 8541.
- **Step 5** - Post-programming calibration procedure.

IMPORTANT The sequence MUST BE followed (Fig. 1).

Fig.1



IMPORTANT Before reprogramming the software check whether the chassis number of the vehicle is involved in Campaign 6116 or 6117 or 6118 and perform that campaign if applicable. For cars involved in one of the above Campaigns, the procedures described in this buttons cannot be carried out unless the work required by the Campaign has already been performed.



Step 1 - First BSM control module reprogramming procedure

IMPORTANT When performing service operations which require reprogramming the software in electronic control modules in order to ensure the correct level of electrical power during the operation it is necessary to connect a battery charger / additional battery to guarantee the nominal voltage of 12.5V 10Ah for the entire duration for the update.

- Using the diagnosis equipment updated to the most recent software release, access vehicle view, select the brake control module (BSM) and open the Reprogram (Flash) tab.
- Compare the installed software number with the suggested new software.
- If the suggested version is the same as the installed version, updating is not required.
- If the suggested version is different from the installed one, check the correct version on the Control Unit Codes table below and proceed with the 1st reprogramming procedure.

Before BSM reprogramming		After BSM reprogramming	
SW number	SW version	SW number	SW version
XJ_RAL00164	83C1	XJ_RAN00015	8B0B
XJ_RAK00479	8383		
XJ_RAK00496	8382		
XJ_RAK00479	8382		
XJ_RAK00479	8381		
XJ_RAK00478	8381		
XJ_RAJ00430	8343		
XJ_RAJ00428	8343		
XJ_RAJ00370	8342		
XJ_RAJ00314	8342		
XJ_RAL00165	83C1		
XJ_RAJ00480	8343		

IMPORTANT Carefully read and follow all the instructions and warning messages displayed during reprogramming; do not continue with the subsequent steps without performing all that is required at each step.

NOTE If the reprogramming process is interrupted/aborted, it must be restarted.

At the end of the programming procedure, reset any errors (DTC) that may have been generated in other modules as a result of the programming. These will be shown on the All DTCs tab.

- After the 1st reprogramming procedure, check that the SW version is 8B0B, then proceed with the configuration restore procedure.



Step 2 - Vehicle Restore Configuration

Using the diagnosis equipment updated to the most recent software release, access vehicle view, select the Body Computer module (BCM) and open the Miscellaneous functions (Misc. Function) tab.

On the tab start the following procedure:

- Vehicle Restore Configuration.

NOTE *If this does not work, you can repeat the procedure several times.*

At the end of the configuration restore procedure, proceed with **Step 3**.

Step 3 - Second BSM control module reprogramming procedure

Using the diagnosis equipment updated to the most recent software release, access vehicle view, select the brake control module (BSM), open the Reprogram (Flash) tab and then proceed with the 2nd reprogramming operation.

- The following table shows the hardware (HW) and software (SW) codes of the brake system module (BSM), before and after the 2nd reprogramming.

IMPORTANT *Carefully read and follow all the instructions and warning messages displayed during reprogramming; do not continue with the subsequent steps without performing all that is required at each step.*

NOTE *If the reprogramming process is interrupted/aborted, it must be restarted.*

At the end of the programming procedure, reset any errors (DTC) that may have been generated in other modules as a result of the programming. These will be shown on the All DTCs tab.

- After the 2nd reprogramming procedure, check that the SW version is 8401, then proceed with the post-reprogramming calibration procedure.

BSM control module code after 2nd reprogramming

Before BSM reprogramming		After BSM reprogramming	
SW number	SW version	SW number	SW version
XJ_RAN00015	8B0B	XJ_RAN00010	8401



Step 4 - Third BSM control module reprogramming procedure

- Access vehicle view using the diagnosis tool:
- Select the brake system module (BSM) and open the Flash tab.
- Check the correct software version in the table of HW and SW codes below, and then proceed with the reprogramming procedure.

Before BSM reprogramming		After BSM reprogramming	
SW number	SW version	SW number	SW version
XJ_RAN00010	8401	XJ_RAX00007	8541

IMPORTANT Carefully read and follow all the instructions and warning messages displayed during reprogramming; do not continue with the subsequent steps without performing all that is required at each step.

NOTE The reprogramming process must be restarted if it is interrupted/aborted. At the end of the programming procedure, reset any errors (DTC) that may have been generated in other modules as a result of the programming. These will be shown on the All DTCs tab.

- Perform the post-reprogramming calibration procedures described below.



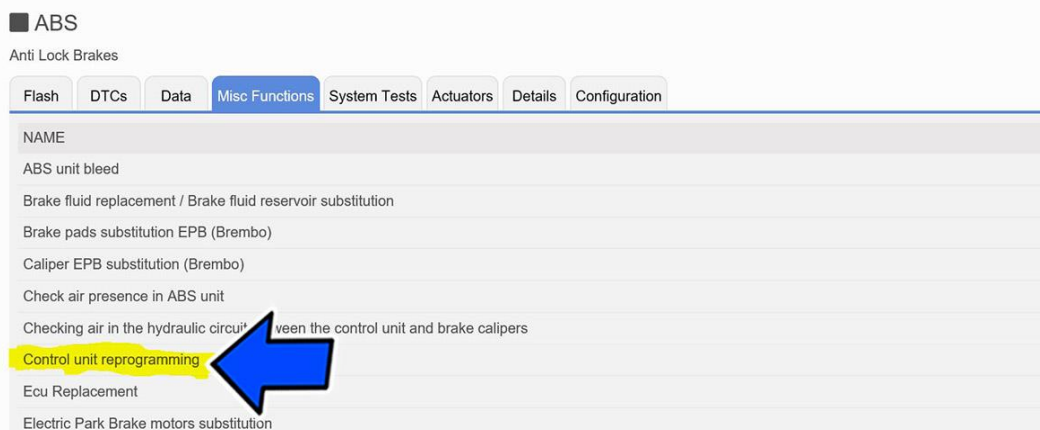
Step 5 - Post-programming calibration procedure

IMPORTANT The calibration procedures must be performed with the vehicle on level ground and without occupants aboard.

Using the diagnostic tool, updated to the latest software release, access vehicle view and make the following selections:

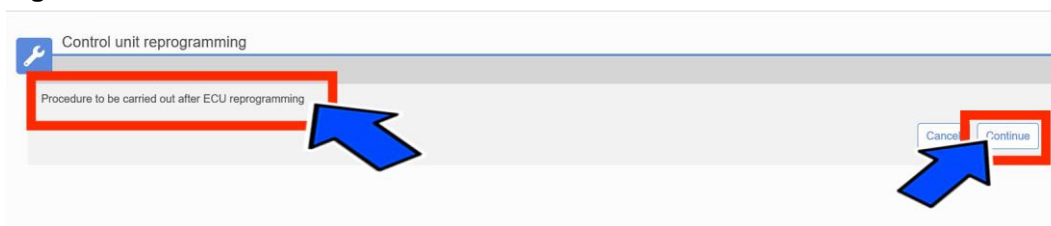
- Select the brake system module (BSM).
- Open the Misc. Functions tab.
- Select "Control Unit Reprogramming". (Fig. 2)

Fig. 2



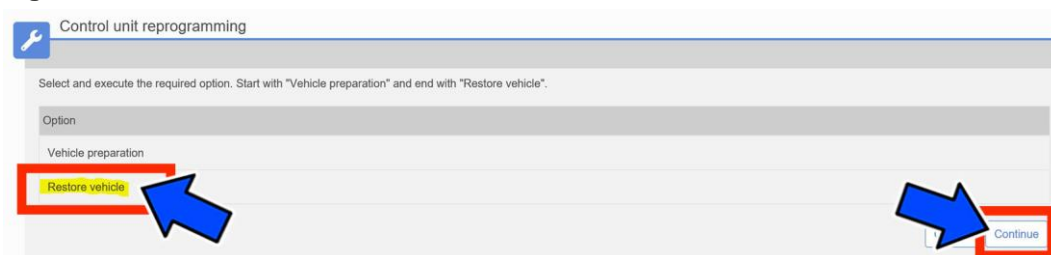
- On the page, select "Procedure to be carried out after ECU reprogramming" and continue. (Fig. 3)

Fig. 3



- On the page, select "Restore vehicle" and continue. (Fig. 4)

Fig. 4



IMPORTANT Carefully read and perform all the instructions and warning messages displayed during reprogramming; do not continue with the following messages without performing what is required at each step.

- Make sure each calibration ends successfully.
- At the end of the calibration procedure, reset any errors (DTC) which may have been generated in other modules, shown on the All DTCs tab.

WARNING After updating the software, perform a vehicle Scan Report and save a copy for further investigations.

- Disconnect the diagnostic tool and release the vehicle.





PROFESSIONAL



RAM



MOPAR

Operation 3

IMPORTANT When performing service operations which require reprogramming the software in electronic control modules in order to ensure the correct level of electrical power during the operation it is necessary to connect a battery charger / additional battery to guarantee the nominal voltage of 12.5V 10Ah for the entire duration for the update.

- Access vehicle view using the diagnosis tool:
- Select the brake system module (BSM) and open the Flash tab.
- Check the correct software version in the table of HW and SW codes below, and then proceed with the reprogramming procedure.

HW 353 - 443

Before BSM reprogramming		After BSM reprogramming	
SW number	SW version	SW number	SW version
XJ_RAN00010	8401	XJ_RAX00007	8541

HW 535

Before BSM reprogramming		After BSM reprogramming	
SW number	SW version	SW number	SW version
XJ_RAN00010	8401	XJ_RAX00007	8541
XJ_RAP00046	8441	XJ_RAW00010	8502

HW 115

Before BSM reprogramming		After BSM reprogramming	
SW number	SW version	SW number	SW version
XJ_RAT00007	84C1	XJ_RAY00006	8581
XJ_RAS00023	8481		
XJ_RAS00042	8482		

IMPORTANT Carefully read and follow all the instructions and warning messages displayed during reprogramming; do not continue with the subsequent steps without performing all that is required at each step.

NOTE The reprogramming process must be restarted if it is interrupted/aborted.

At the end of the programming procedure, reset any errors (DTC) that may have been generated in other modules as a result of the programming. These will be shown on the All DTCs tab.

- Perform the post-reprogramming calibration procedures described below.

Post-reprogramming calibration procedure

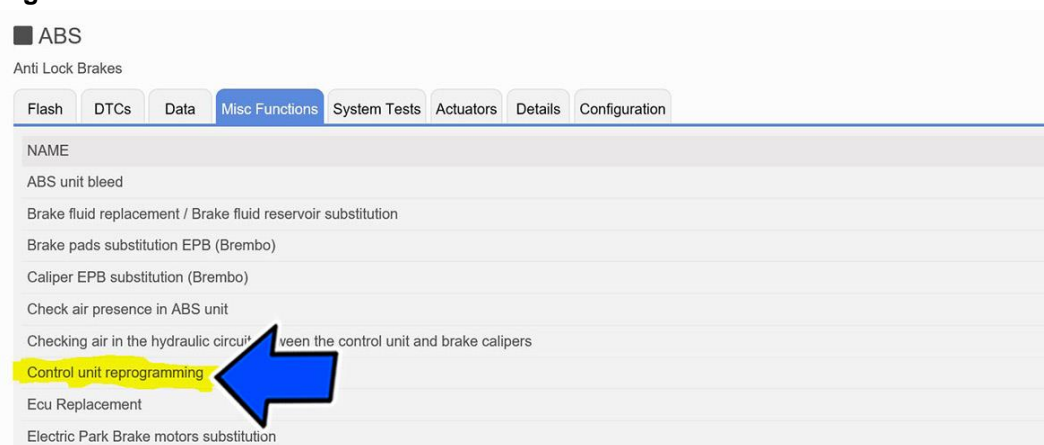


IMPORTANT The calibration procedures must be performed with the vehicle on level ground and without occupants aboard.

Using the diagnostic tool, updated to the latest software release, access vehicle view and make the following selections:

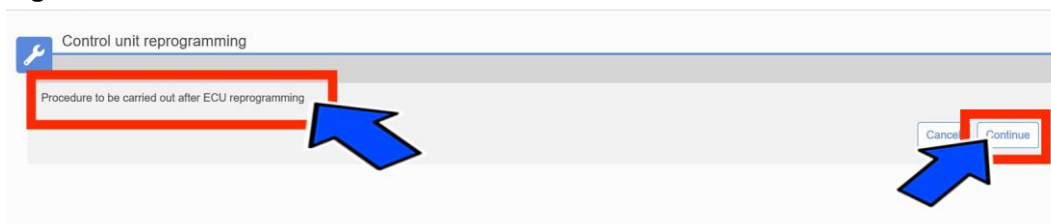
- Select the brake system module (BSM).
- Open the Misc. Functions tab.
- Select "Control Unit Reprogramming". (Fig. 2)

Fig. 2



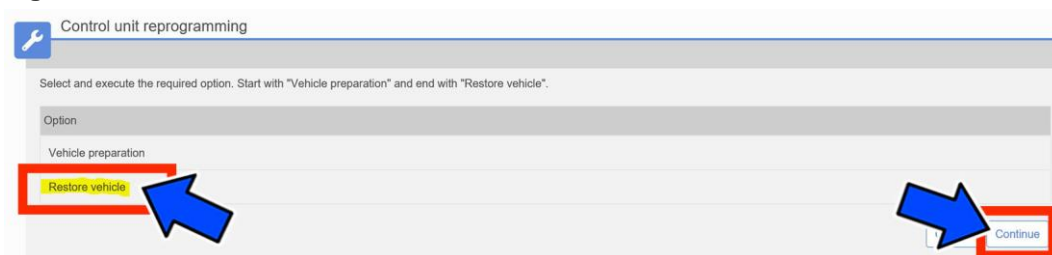
- On the page, select "Procedure to be carried out after ECU reprogramming" and continue. (Fig. 3)

Fig. 3



• On the page, select "Restore vehicle" and continue. (Fig. 4)

Fig. 4



IMPORTANT Carefully read and perform all the instructions and warning messages displayed during reprogramming; do not continue with the following messages without performing what is required at each step.

- Make sure each calibration ends successfully.
- At the end of the calibration procedure, reset any errors (DTC) which may have been generated in other modules, shown on the All DTCs tab.

WARNING After updating the software, perform a vehicle Scan Report and save a copy for further investigations.

- Disconnect the diagnostic tool and release the vehicle.



DRAFT OF RECALL CAMPAIGN LETTER

Annex 1

RECALL CAMPAIGN code 8238

Dear Customer

We hereby notify you of the following information related to your Alfa Romeo Giulia - Alfa Romeo Stelvio (VIN: xxxxxxxxxxxxxxxxx).

What is the problem?

On some Alfa Romeo Giulia - Alfa Romeo Stelvio vehicles, including yours, because of an issue related to the brake control module, undesired acceleration of the vehicle may occur in exception and rare cases with *Active Cruise Control* on.

What should I do?

As the fault could potentially affect the safety of your vehicle, we would be grateful if you could urgently take it to the Dealership you bought it from or to any authorised Alfa Romeo Service Centre as soon as possible, bringing this letter with you. For greater convenience, we recommend making an appointment, referring to the authorised Alfa Romeo service centres on the www.alfaromeo.com/ website.

What does the operation consist of?

The operation will consist in updating the brake system module software.

Will I have to pay anything?

You will not be charged for this service operation.

Further information

Please do not hesitate to contact a Dealership, an authorised Alfa Romeo service centre or our Customer Service (on Freephone 0080025320000) for more information about the operation.

You can connect to the www.alfaromeo.com/ website for the latest news about your vehicle.

We thank you for your kind cooperation.

We apologise for any inconvenience caused and wish you our kindest regards.

FCA S.p.A.

If you have already sold or transferred your vehicle, we ask you to tell us the name and address of the new owner or user, using the enclosed stamped and pre-printed card, along with any information which could make it easier for us to find the current owner or user.

