Service Action Code: 90L2



Subject

Driver Assist System Software

Release Date

April 12, 2019

REVISION SUMMARY

Updated work instructions to reflect the following:

 Criteria 02 vehicles – the "Automatic online map update" must be deactivated before starting SVM code 90L2B432

Affected Vehicles

U.S.A. & CANADA: Certain 2019 MY Audi A6, A7, A8 and Audi Q8

Check Campaigns/Actions screen in Elsa on the day of repair to verify that a VIN qualifies for repair under this action. Elsa is the <u>only</u> valid campaign inquiry & verification source.

- ✓ Campaign status must show "open."
- If Elsa shows other open action(s), inform your customer so that the work can also be completed at the same time the vehicle is in the workshop for this campaign.

Problem Description

In affected vehicles, it is possible to have the following software-related issues with adaptive cruise (driver assist system):

- Loss of target object at close range and erroneous drive-off warning in stop-and-go traffic
- Occasional restrictions to comfort when driving over crests or through dips

Corrective Action

Perform software update to correct for these conditions.

Parts Information

No parts needed.

Code Visibility

On or about April 04, 2019, affected vehicles were listed on the Inventory Vehicle Open Campaign Action report under My Dealership Reports (found on www.accessaudi.com & OMD Web). A list was not posted for dealers who did not have any affected vehicles.

On or about April 04, 2019, this campaign code showed open on affected vehicles in Elsa.

On or about April 04, 2019, affected vehicles were identified with this campaign code in the VIN Lookup tool at www.audiusa.com.

Owner Notification

Owner notification will take place in April 2019. Owner letter examples are included in this bulletin for your reference.

Campaign Expiration Date

This campaign expires on <u>December 31, 2021</u>. Repairs must be performed on or before this date to be eligible for payment. Keep this expiration date in mind when scheduling customers for this action. If a customer wishes to have this service performed after the expiration date, your dealerships normal parts and labor cost associated with this repair will apply.

Additional Information

Please alert everyone in your dealership about this action, including Sales, Service, Parts and Accounting personnel. Contact Warranty if you have any questions.

Dealers must ensure that every affected inventory vehicle has this campaign completed <u>before</u> <u>delivery to consumers</u>.

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Claim Entry Instructions

After campaign has been completed, enter claim as soon as possible to help prevent work from being duplicated elsewhere. Attach the Elsa screen print showing action <u>open on the day of repair</u> to the repair order. If customer refused campaign work:

- ✓ <u>U.S. dealers:</u> Submit the request through Audi Warranty Online under the <u>Campaigns/Update</u> option.
- ✓ Canada dealers: Upload the repair order [signed by customer] to Audi WIN/Operations/Campaign Closure.

Service Number	90L2
Damage Code	0099
Parts Vendor Code	002
Claim Type	Sold vehicle: 7 10
	Unsold vehicle: 7 90
Causal Indicator	Mark labor as causal
Vehicle Wash/Loaner	Do not claim wash/loaner under this action
Criteria I.D.	01
	Connect battery charger.
	Labor operation: 2706 89 50 10 T.U.
	-AND-
	Update driver assist software via SVM.
	Labor operation: 9035 25 99 Time stated on diagnostic protocol
	① NOTE
	Operating mode "Flash" must be used. Performing this software update using "Diagnosis" (Guided Fault Finding) could result in non-payment of the claim.
Criteria I.D.	02
	Connect battery charger.
	Labor operation: 2706 89 50 10 T.U.
	-AND-
	Update driver assist software via SVM and via SD card+SVM.
	Labor operation: 9035 26 99 Sum of the time stated on <u>BOTH</u> diagnostic protocols
	① NOTE
	Operating mode "Flash" must be used. Performing this software update using "Diagnosis" (Guided Fault Finding) could result in non-payment of the claim.

The repair information in this document is intended for use only by skilled technicians who have the proper tools, equipment and training to correctly and safely maintain your vehicle. These procedures are not intended to be attempted by "do-it-yourselfers," and you should not assume this document applies to your vehicle, or that your vehicle has the condition described. To determine whether this information applies, contact an authorized Audi dealer. ©2019 Audi of America, Inc. and Audi Canada. All Rights Reserved.

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Customer Letter Example (USA)

<MONTH YEAR>

<CUSTOMER NAME>

<CUSTOMER ADDRESS>

<CUSTOMER CITY STATE ZIPCODE>

This notice applies to your vehicle: <VIN>

Subject: Service Action 90L2 - Driver Assist System Software

Certain 2019 Model Year Audi A6, A7, A8 and Audi Q8

Dear Audi Owner,

As part of Audi's ongoing commitment to customer satisfaction, we are informing you of our decision to conduct a service action on certain 2019 model year Audi vehicles. Our records show that you are the owner of a vehicle affected by this action.

What is the issue?

In affected vehicles, it is possible to have the following software-related issues with adaptive cruise (driver assist system):

- Loss of target object at close range and erroneous drive-off warning in stopand-go traffic
- · Occasional restrictions to comfort when driving over crests or through dips

What will we do?

Your authorized Audi dealer will perform a software update to correct for these conditions. This work will take about an hour to complete and will be performed for you free of charge.

What should you do?

In order to limit any possible inconvenience, please contact your authorized Audi dealer as soon as possible to schedule this service. Please keep in mind that your dealer may need additional time for the preparation of the repair, as well as to accommodate their daily workshop schedule. For your convenience, you can also visit www.audiusa.com and click on the "Find a Dealer" link to locate a dealer near you and schedule this service.

This service action will be available for you <u>free of charge only until December 31, 2021.</u> If you wish to have this service performed after that date, your dealer's normal parts and labor cost associated with this repair will apply.

Lease vehicles and address changes

If you are the lessor and registered owner of the vehicle identified in this action, please forward this letter immediately via first-class mail to the lessee within ten (10) days of receipt. If you have changed your address or sold the vehicle, please fill out the enclosed prepaid Owner Reply card and mail it to us so we can update our records.

Can we assist you further?

If your authorized Audi dealer fails or is unable to complete this work free of charge within a reasonable time, please contact Audi Customer Experience at 1-800-253-2834 or via our "Contact Us" page at www.audiusa.com.

Checking your vehicle for open Recalls and Service Campaigns

To check your vehicle's eligibility for repair under this or any other recall/service campaign, please visit the **Recall/Service Campaign Lookup** tool at www.audiusa.com and enter your Vehicle Identification Number (VIN).

We apologize for any inconvenience this matter may cause; however we are taking this action to help ensure your vehicle continues to meet and exceed your expectations.

Sincerely,

Audi Customer Protection

Customer Letter Example (CANADA)

<MONTH YEAR>

<CUSTOMER NAME>
<CUSTOMER ADDRESS>
<CUSTOMER CITY STATE ZIPCODE>

This notice applies to your vehicle: <VIN>

Subject: Service Action 90L2 - Driver Assist System Software

Certain 2019 Model Year Audi A6, A7, A8 and Audi Q8

Dear Audi Owner,

As part of Audi's ongoing commitment to customer satisfaction, we are informing you of our decision to conduct a service action on certain 2019 model year Audi vehicles. Our records show that you are the owner of a vehicle affected by this action.

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In order to limit any possible inconvenience, please contact your authorized Audi dealer as soon as possible to schedule this service. Please keep in mind that your dealer may need additional time for the preparation of the repair, as well as to accommodate their daily workshop schedule.

This service action will be available for you <u>free of charge **only until December 31**, **2021**. If you wish to have this service performed after that date, your dealer's normal parts and labor cost associated with this repair will apply.</u>

Lease vehicles and address changes

If you are the lessor and registered owner of the vehicle identified in this action, please forward this letter immediately via first-class mail to the lessee within ten (10) days of receipt. If you have changed your address or sold the vehicle, please fill out the enclosed prepaid Owner Reply card and mail it to us so we can update our records.

Can we assist you further?

If your authorized Audi dealer fails or is unable to complete this work free of charge within a reasonable time, please contact Audi Customer Relations Monday through Friday from 8AM to 8PM EST at 1-800-822-2834 or via our "Contact Audi Canada" page at www.audi.ca.

We apologize for any inconvenience this matter may cause; however we are taking this action to help ensure your vehicle continues to meet and exceed your expectations.

Sincerely,

Audi Customer Protection

U NOTE

- Damages resulting from improper repair or failure to follow these work instructions are the dealer's responsibility and are not eligible for reimbursement under this action.
- Diagnosis and repair of pre-existing conditions in the vehicle are not covered under this action.

Required Tools



- VAS6150D Diagnostic Tester (or equivalent)
- VAS6154 Vehicle Communication Interface (or equivalent)

• NOTE

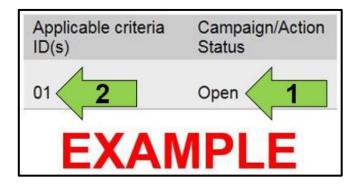
The VAS6154 or VAS5055 are the preferred diagnostic heads. Using the VAS5054 may cause a SVM failure that could result in control module failure.



GRX3000VAS – Battery Tester/Charger (or equivalent)

Repair Instruction

Section A - Check for Previous Repair



• Enter the VIN in Elsa and proceed to the "Campaign/Action" screen.

i TIP

On the date of repair, print this screen and keep a copy with the repair order.

- Confirm the Campaign/Action is open <arrow 1>. If the status is closed, no further work is required.
- Note the Applicable Criteria ID <arrow 2> for use in determining the correct work to be done and corresponding parts associated.

Proceed to Section B.

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Section B – Driver Assist Update

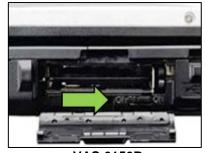
U NOTE

Prior to launching the VAS Diagnostic Tester and starting an update, ensure the following conditions are met:

- The ODIS software is completely up to date.
 - Refer to the "Alerts" section on ServiceNet home page for the current ODIS version.
- The battery charger is connected to the vehicle battery and remains connected for the duration of the software update.
 - Battery voltage must remain above 12.5 volts for the duration of the software update. Failure to do so may cause the update to fail, which could result in damage to the control module. Control modules damaged by insufficient voltage will not be covered.
- The screen saver and power saving settings are off.
 - Failure to do so may result in the tester entering power save mode during the software update, which could result in damage to the control module.
- The VAS Diagnostic Tester is plugged in using the supplied power adapters.
 - Under no circumstances should the tester be used on battery power alone during the software update. Failure to do so may result in the tester powering off during the update, which could result in damage to the control module.
- Flash process through "Audi Flashing" not Guided Fault Finding (GFF).
 - DO NOT USE Guided Fault Finding (GFF) to perform this flash. Damage caused to control modules while using GFF will not be covered.
- If using a Bluetooth transmitter head, it is connected to the tester with a USB cable.
 - Performing a software update using a Bluetooth connection increases the risk of losing connection during the update, which could result in damage to the control module. It also greatly increases the time required to perform the update. Requests for additional time or parts will be denied if the GFF log shows the update was performed using Bluetooth.
- The Bluetooth function of the scan tool is physically switched off <see pictures below>.



VAS 6150 & VAS 6150A (Front panel behind handle)



VAS 6150B (Right side behind WIRELESS door)



VAS 6150C (Left side behind SC/EX door)

A WARNING

Radiator Fan(s) may cycle ON high speed during the Update Process! There is a serious risk that personal injury may result if contact is made with spinning fan blades. Keep hands and all objects away from Radiator Fan(s) during Update Process!

- Open the hood.
- Access the battery charging posts.
- Switch the ignition on.
- Apply the parking brake.
- Switch off all consumers (headlights, heated seats, climate control, etc.).
- Connect the VAS6150X/VAS6160X Diagnostic Tester to the vehicle.
- Start the ODIS program.
- Attach the GRX3000VAS Tester/Charger (or equivalent) to the vehicle battery charging posts.



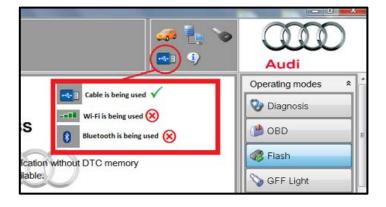
Vehicles with Battery Monitoring Control Module -J367- and/or an EFB Battery:

When connecting the charger to the battery, connect the positive cable to the positive terminal of the battery and connect the negative cable to the grounding lug on the chassis. DO NOT connect the ground cable directly to negative terminal of the battery.

Turn the hazards on.

A CAUTION

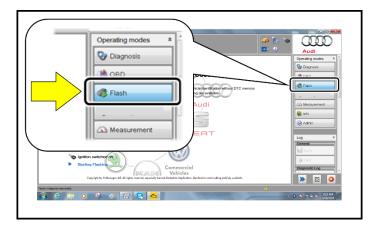
The procedure may cancel itself if the hazard warning lights are not switched on. The hazard warning lights prevent the system from switching to bus sleep mode during the update.



- Confirm that scan tool is communicating with the diagnostic head by USB cable.
 - If the Bluetooth or WiFi symbol is shown, then disconnect the diagnostic head from the vehicle and reconnect the USB cable to the diagnostic head and then reattach to the vehicle.

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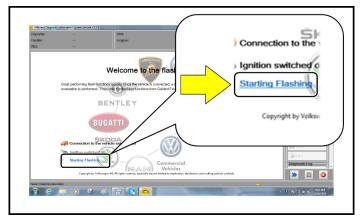
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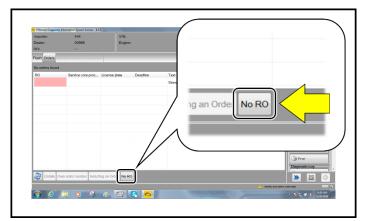
- From the home screen of the scan tool highlight "Flash" <1>.
- Follow the on-screen prompts.



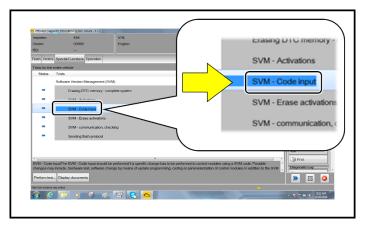
Operating mode "Flash" must be used. Performing this software update using "Diagnosis" (Guided Fault Finding) could result in non-payment of the claim.



 Select "Starting Flashing" and follow the onscreen prompts.

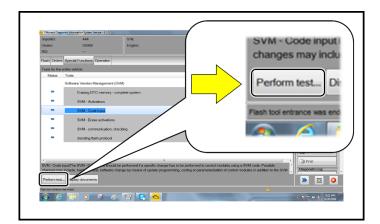


Select "No RO".



Highlight "SVM – Code Input".

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Select "Perform test".



Using <u>Bluetooth</u> for this action is <u>PROHIBITED!</u>

Damage caused to electronic components (e.g. ECM, TCM, etc.) during the SVM update process is not covered.



Vehicles with critiera 01:

- Enter the corrective action code (SVM code) as listed below.
- Update with SVM **90L2A216**.
- · Select "Accept".
- Follow the on-screen prompts.

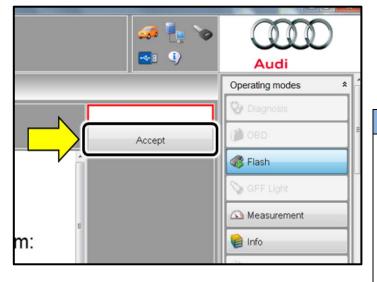
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Vehicles with criteria 02:



Follow all instructions in TSB 2047812: SD Creator: How to setup and use the SD Creator for obtaining vehicle software updates via the MirrorServer.

- Update with SVM 90L2A216 on a stand-alone Flash session.
- Select "Accept".
- Follow the on-screen prompts.
- Follow the rest of the steps in this work instruction (including the extra ignition cycle step).
- Start a new Flash session.



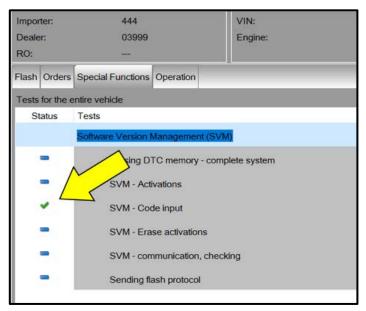




- Before running SVM code 90L2B432 with SD card, the "Automatic online map update" must be deactivated in the MMI menu. Failing to do so will cause longer than normal flash times and could cause flash interruptions.
- In the MMI, go to Settings > System update > Deactivate Automatic online map update.
- The function must be re-activated after the update is completed.
- Insert SD Card part # 4N0906961K into SD card reader under center armrest (SD card is created using the SD Creator program).
- Update with SVM 90L2B432 on a second stand-alone Flash session.
- Select "Accept".
- Follow the on-screen prompts.

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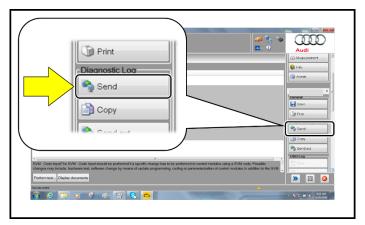
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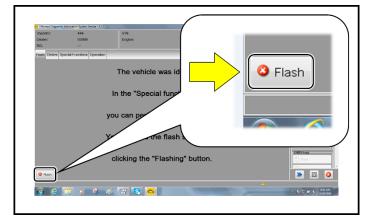


otherwise faults stored during the update may not be cleared upon exiting the Flash program.

 After receiving confirmation that the update completed successfully (green check mark)
 <arrow>, the ignition must be turned off for 60 seconds and then turned back on.



- Select "Send" to send the diagnostic protocol online.
- Follow the on-screen prompts.



- Click "Flash" to exit the flash session.
- Remove the SD card from the SD card reader (vehicles with both criteria 01 and 02).
- Proceed to Section C.

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Section C - Campaign Stamp

I certify that this campaign
has been performed in strict
accordance with the applicable
Audi repair procedure.

SAGA Code:

Technician:

Date:

Item#: AUD4927ENG

OR

Je certifie que cette
campagne de rappel a été
exécutée suivant les strictes
directives de réparation
d'Audi

Code de SAGA:
Technicien:

Date:

Item # AUD4927FRE

- Once the campaign has been completed, the technician should stamp the repair order.
- Stamps are available for ordering through the Compliance Label Ordering Portal (item# AUD4927ENG or AUD4927FRE).

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