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90Q1 UPDA	ATF			

Instrument Cluster Software Update - (NVLW)



Applicable Vehicles						
Country	Beginning Model Year	Ending Model Year	Vehicle	Vehicle Count		
USA	2021	2021	Q5	7,997		
CAN	2021	2021	Q5	999		

Revision History					
Revision	Date	Purpose			
1	10/27/2020	Original publication			

Condition/Technical Background

This Update has been proactively released to prevent the following condition(s) from occurring in the vehicle:						
Criteria	Technical Background					
FY	The vehicle image displayed on the driver information system tab of the instrument cluster is an A4 Avant instead of a Q5.					

Remedy

Criteria	Remedy
FY	Update instrument cluster software

This Update is in effect until removed.

Vehicle must meet all of the following criteria:

- Procedure is valid only for vehicles that show the 90Q1 code in the Elsa Campaign/Action Information screen on the day of repair.
- Vehicle must be within the New Vehicle Limited Warranty.
- Procedure must be performed within the allotted time frame stated in this Technical Service Bulletin.
- Procedure must be performed on applicable vehicles in dealer inventory prior to sale.

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Technical Service Bulletin

90Q1 UPDATE

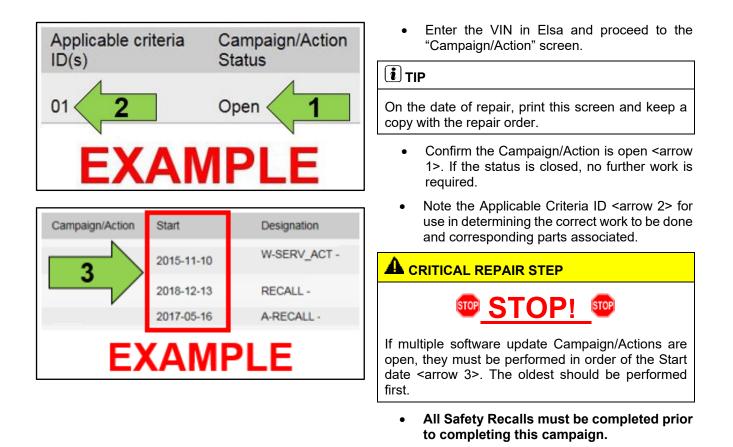
Instrument Cluster Software Update – (NVLW)



Service

NOTE:

- Elsa is the only valid inquiry/verification source. Check Elsa on the day this vehicle UPDATE will be performed to verify vehicle eligibility for the UPDATE. Status must show "open". Attach an Elsa printout showing the "open" status to the repair order.
- If this UPDATE appears to have already been performed but the code still shows open in Elsa, contact Warranty before proceeding further. Another dealer may have recently performed this UPDATE but not yet entered a claim for it in the system.
- Elsa may also show additional open action(s); if so, inform your customer this work can be done while • the vehicle is in for this UPDATE.
- Contact the Warranty Helpline (U.S.) or the Warranty Campaign Specialist (Canada) if you have any questions.



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90Q1 UPDA	TE		$\overline{\mathbf{m}}$	

Instrument Cluster Software Update – (NVLW)



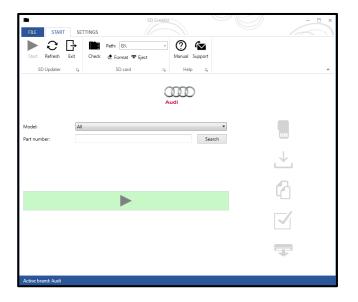


Make sure the update is required by checking • the software version of the installed instrument cluster -J285- (diag. addr. 0017: OBD > 0017 -Instrument Cluster > Identification) against the table below.

Applicable Part Number	Applicable Software Version
8W5.920.790.L	0157 or 0159
8W5.920.790.K	0159

If the software in the vehicle is already at 0161 or greater, the update is not needed.

Update Instrument Cluster Software



- A USB flash drive will need to be created using • the SD Creator program. Refer to the chart below to create the correct USB flash drive.
- Reference the latest version of TSB 2047812 for additional information on the use of the SD Creator program.

Criteria	USB Flash Drive Part Number
FY	8W6.906.961.J

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Release Date	10/27/2020	Тес	hnica	I Service Bulletin	
90Q1 UPDA Instrument		tware Update – (N	NVLW	/)	Audi
			•	Open the hood. Open the battery cover. Attach the GRX3000VA (or equivalent) IN POWE to the vehicle batter charging posts.	R SUPPLY MODE
			() N	ОТЕ	
			batter termir cable NOT o	connecting the charge y, connect the positive ca hal of the battery and cor to the grounding lug on connect the ground cable hal of the battery.	able to the positive nnect the negative the chassis. DO
			•	Switch on the hazard wa	rning lights.
		* # *		AUTION	
HOME RADIO MEDIA WEDIA	ADIO # MEDIEN	TELEF RICHT	warnii warnii	procedure may cancel it ng lights are not switche ng lights prevent the syst s sleep mode during the u	ed on. The hazard em from switching
	GATION & FAHRZEUG		•	Perform the update via th Menu (REM) by touchir two fingers in the top rigl	ng the screen with
			•	Insert the USB flash driv	e.
		-	•	Use the volume control to (left and right for scrolling	
			•	Select "Update" and t update medium as USB.	
			•	All control units to be up scroll all the way down a via the REM.	

There may be a longer than expected pause before the update begins once the update is started.

After the manual successful update perform ٠ the SVM outlined in the next steps so that the ODIS tester can make the necessary configuration and report the new vehicle configuration to the SVM server.

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•	UPDA ument (tware Update -	· (NVLW)		Audi
! NO	TE					
Prior to	launching	g the VAS Diagno	ostic Tester and starti	ng an update, ensure	the following o	conditions are met;
\checkmark	The ODIS	software is com	pletely up to date.			
	•	Refer to the "Al	erts" section on Service	Net home page for the	e current ODIS \	version.
√	The batte software		nnected to the vehicle	battery and remains	connected for	the duration of the
	•	do so may cau	e must remain above 12 se the update to fail, w ged by insufficient volta	hich could result in dar	mage to the con	
\checkmark	The scree	en saver and pow	ver saving settings are	e off.		
	•		o may result in the test sult in damage to the co		e mode during t	he software update,
\checkmark	The VAS	Diagnostic Teste	er is plugged in using	the supplied power a	dapters.	
	•	update. Failure	mstances should the to to do so may result in t ne control module.			
\checkmark	Flash pro	cess through " <u>A</u>	<u>udi Flashing</u> " not Gui	ded Fault Finding (Gl	FF).	
	•		Guided Fault Finding (0 Requests for additiona			will cause the flash
\checkmark	The VAS	Diagnostics Inter	rface MUST ONLY be	connected to the test	er with a USB o	cable.
	•	connection dur It also greatly i	oftware update using a ing the update, which o ncreases the time requ nied if the GFF log sho	ould result in damage ired to perform the upo	to the control mo late. Requests f	odule. or additional time or

i TIP

As a best practice, customer presets should be documented prior to performing any update in the event these settings are lost during the update.

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Technical Service Bulletin

90Q1 UPDATE

Instrument Cluster Software Update – (NVLW)



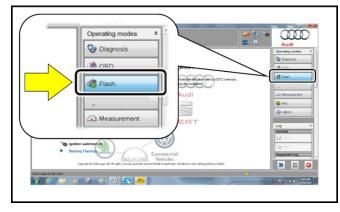
- All campaign software updates must be completed during a single, standalone ODIS Diagnostic Session. You must fully complete this campaign and send all logs before beginning any other campaigns or operations.
- If there are any ODIS "Hot-Fix" patches installed, they must be removed from the scan tool before beginning this operation. ODIS "Hot-Fix" patches may affect the update process.

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!

To Update-Programming using SVM, review and follow instructions in Technical Bulletin 2011732: *Software Version Management (SVM) Operating Instructions.*

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.





- Connect the VAS6150X/VAS6160X Diagnostic Tester to the vehicle.
- Start the ODIS program.
- 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.
- 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.

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90Q1 UPDA Instrument		tware Update	– (NVLW)	Audi	
Goat performing lash functions o evaluation is performed. Then on	Commercial Vehicles Units used week to the second s	Connection to the Ignition switched o Starting Flashing Copyright by Velker	 Select "Starting Flashing" screen prompts. 	and follow the on-	
Check Langest Mendul Transformer 4.1)	ng an Ord		• Select "No RO".		
Monte al imported intervent in give bases - (1) and the second seco	ele report	Erasing DTC memory - SVM - Activations SVM - Code input SVM - Erase activations SVM - Erase activations SVM - communication, c	• Highlight "SVM – Code Inp	out".	

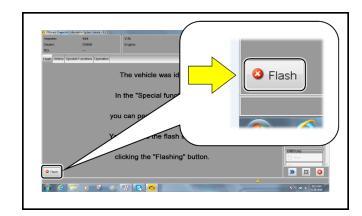
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90Q1 UPDATE Instrument Cluster Software Update – (NVLW)				Audi
Mindel Segnetic Research Space Second Coll Mathematican Space Second Space Second Space Tests: 444 Mathematican Space Second Space Space Space Tests: End Research Space S		SVM - Code input changes may inclu Perform test Dis Fash tooi entrance was end Compared to the server Compared to the server Compared to the server Compared to the server	• Select "Perform test".	
m:	Accept	Audi Operating modes	IDENTIFY Using <u>Bluetooth or WiFi</u> for <u>PROHIBITED!</u> Damage caused to electronic of ECM, TCM, etc.) during the SVM not covered. • Enter the corrective action as listed below. SVM code FPKWW01 • Select "Accept" <arrow>. • Follow the on-screen prom</arrow>	components (e.g. / flash process is code (SVM code) 61
Hannes Hannes	tic Loc d y d a a t potential a good, charge has be potential to constrained as potential of goods, charge has be potential to constrained as the potential of the potential to constrained as the potential of the potential to constrained as the potential to constrained as the potential of the potential to constrained as the po		 After receiving confirmation completed successfully, <arrow> to send the donline.</arrow> Follow the on-screen promotion 	select "Send" iagnostic protocol

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Instrument	Audi			



Click "Flash" <arrow> to exit the flash session. •

i TIP

Various event memory entries may be generated after the flashing procedure on some vehicles. Put the vehicle in a corresponding bus sleep mode after performing the update in order to clear the faults.

To put the vehicle in bus sleep mode, disconnect the diagnostic tester, remove the key from the vehicle and lock the vehicle with the remote for 5 minutes.



Reset the clock to local time after the update is complete, if necessary.

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90Q1 UPDATE

Instrument Cluster Software Update – (NVLW)



Warranty

Claim Entry Instructions

After Update has been completed, enter claim as soon as possible to help prevent work from being duplicated elsewhere. Attach the Elsa screen print showing action open on the day of repair to the repair order.

If customer refused campaign work or vehicle is out of the specified warranty parameter for this Update:

- U.S. dealers: Submit the request through Audi Warranty Online under the Campaigns/Update option. √
- ✓ Canada dealers: Upload the repair order to Audi WIN/Operations/Campaign Closure.

Service Number	90Q1				
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.	FY				
	Check instrument cluster software version, software is current, no further work required				
	LABOR				
	Labor Op	Time Units	Description		
	0183 00 99	10	Check instrument cluster software version		
-OR-	Check instrument cluster, software is not current, update instrument cluster software				
	LABOR				
	Labor Op	Time Units	Description		
	2706 89 50	10	Connect battery charger		
	9025 25 99	40	Update instrument cluster software		
	0150 00 00	Time stated on diagnostic protocol	Perform GFF documentation SVM		

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90Q1 UPDATE Instrument Cluster Software Update – (NVLW) Audi				
Additional Actio	Elsa Campai	Some of the affected vehicles may be involved in additional Actions. Please check your Elsa Campaign/Action Information screen so that any <i>additional required work can be done simultaneously</i> .		
Verifying Vehicl Eligibility	Information s	To verify vehicle eligibility for this Update, <i>always</i> check the Elsa Campaign/Action Information screen. The Elsa system is the <i>only</i> binding inquiry and verification system; other systems are not valid and <i>may result in non-payment</i> of a claim.		
Help for Claim Entry	For question	is regarding claim entry, contact Audi Warranty.		
Required	Inform your o	customer in writing by recording on the Repair Order any and all work that		

was conducted on the vehicle, including any and all updates completed under this Update.

Required Special Tools

Customer Notification



Additional Information

All parts and service references provided in this Update are subject to change and/or removal. Always check Elsa for the most current version of this document.

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