

 Preview Solution CBR-2465-1

Volvo Chassis - Proactive Engine Restart (Remote Engine Start System) - VN (4)

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Valid For

Volvo Chassis- VN (4)

1. OVERVIEW

1. This CBR pertains to two issues that may arise with the Proactive Engine Restart (Remote Engine Start System)

1. Key Fob Activation Issue:

- **NOTE: ONLY APPLICABLE TO SALES PACKAGE**

H9AC1X

- Remotely starting the engine via the AUX switch on the key fob DOES NOT work
- Lock, unlock, and turning on parking heater via key fob Does work



1. Flexible Switch Activation Issue:

- The Auto Start/Stop flexible switch (pictured below) does not activate the system – no alert is displayed that the system has been activated.

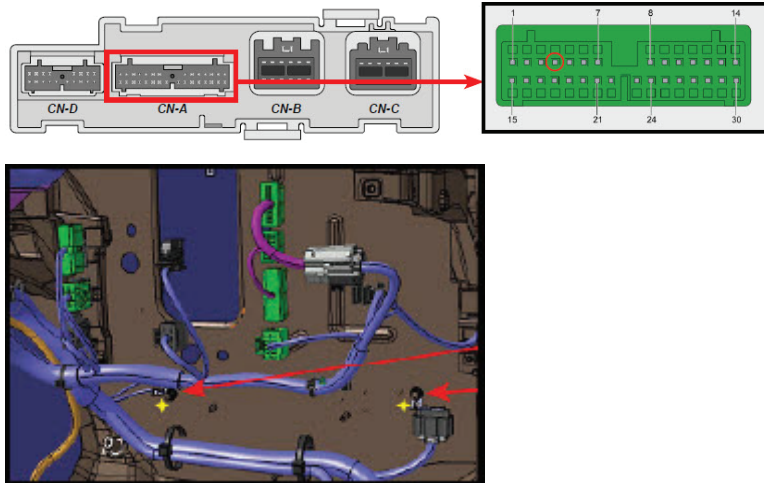


1. PROCESS

1. To troubleshoot these issues, verify that the 'closed hood' pre-condition for Proactive Engine Restart is met.

1. An unclosed hood can be detected by measuring the resistance between the hood latch status pin and any ground:

- Ensure that the key is in the off position.
- Measure between **Security & Cab Interface Module (SCIM) Pin A:4** (pictured below) and any ground. There are two ground studs located on the passenger side interior firewall, behind the **SCIM**



- **Pin A:4 should measure between 4.6K and 4.8K ohms. If resistance is below this range. The hood is open.**
- If the hood latch resistance is found to be out of spec, Please use operation number **8213-05-03-02 Hood Latch, Adjustment**, steps 3 – 10 to check that the cable adjustment is correct.
- Re-measure the resistance between **SCIM** pin **A:4** and any ground to verify that the hood is completely closed – **the**

resistance should measure between 4.6k and 4.8k ohms.

2. TESTING

1. Once the adjustment is complete, verify that the Proactive Engine Restart is working correctly – ensure that the following preconditions are met:

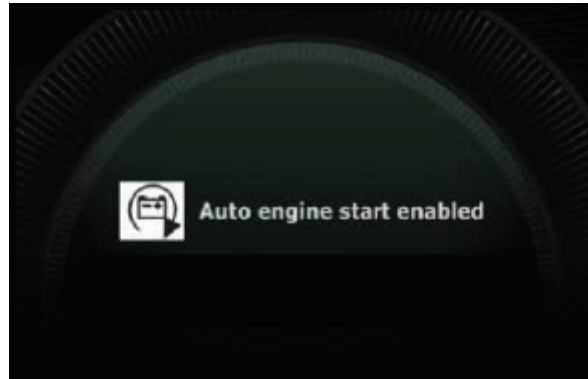
1. Test Proactive Engine Restart With Key Fob

- Driver and Passenger doors must be closed
- Hood must be closed
- Fuel level must be above 12.5%
- Park brake must be applied
- Gear level must be in Neutral position
- Vehicle mode must be in Living or Parked
- Auto Stat/Stop flexible switch is NOT ACTIVATED (flexible switch on the left side of the dash is not lit up)
- Once ALL of the above preconditions are met, press and hold AUX button on the key fob for 3 seconds to start the engine.

2. Test Proactive Engine Restart with Flexible Switch

- For vehicles with key and cylinder: insert the key, ensuring that it is in the OFF or Accessory Position
- For vehicles with a key fob and push start: the key fob must be located inside the cab and truck is off.
- Driver and passenger doors must be closed.
- Hood must be closed.
- Fuel level must be above 12.5%
- Park brake must be applied
- Gear Lever must be in Neutral position
- Accelerator pedal must be released

- Once ALL of the above preconditions are met, press the Proactive Engine Start flexible switch to enable the function. A message on the instrument cluster display (picture right) will verify successful activation.



Related links and attachments

No links or attachments available



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to help improve the content of this article

82136-3 Hood Latch, Adjustment

	Illustrations may differ slightly from the actual vehicle being serviced. However, key components addressed in this information are represented as accurately as possible.
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	Colors used in illustrations are for highlighting purposes only and do not correspond to the actual colors of the vehicle.
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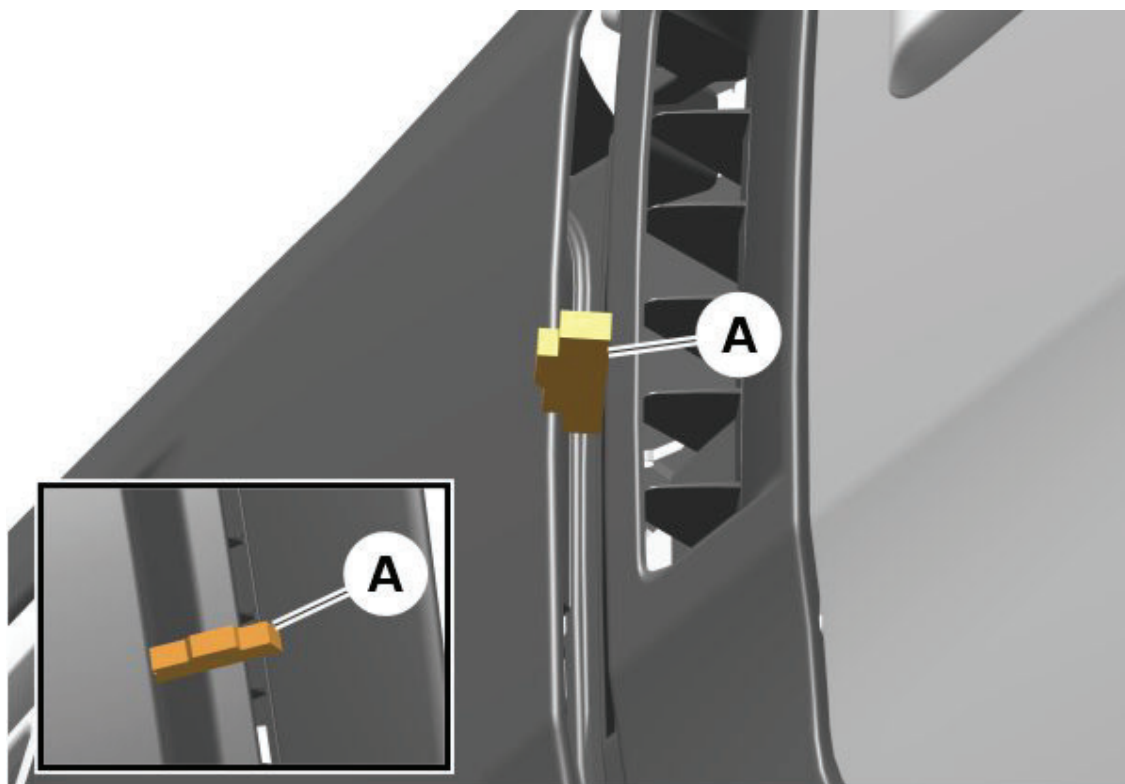
	All threaded fasteners that do not have a tightening torque specification in the information are tightened to a standard torque. Standard torques are available in the following specification. ➤ Standard Tightening Torques
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 CAUTION	
Service Information Advisory. If you are not properly trained and certified in this procedure, ask your supervisor for training before you perform it.	
▶	You must read and understand the precautions and guidelines in Service Information, Function Group 8, "General Safety Practices, Body, Cab and Interior" before performing this procedure.

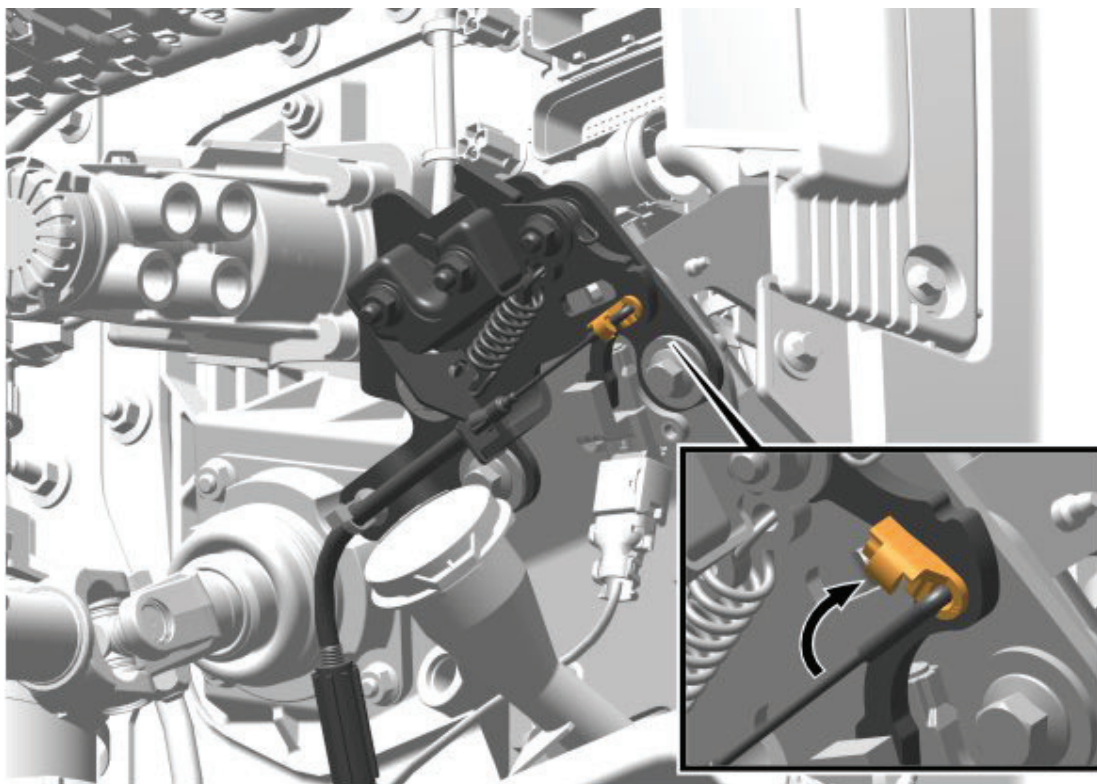
Special tools

88800845

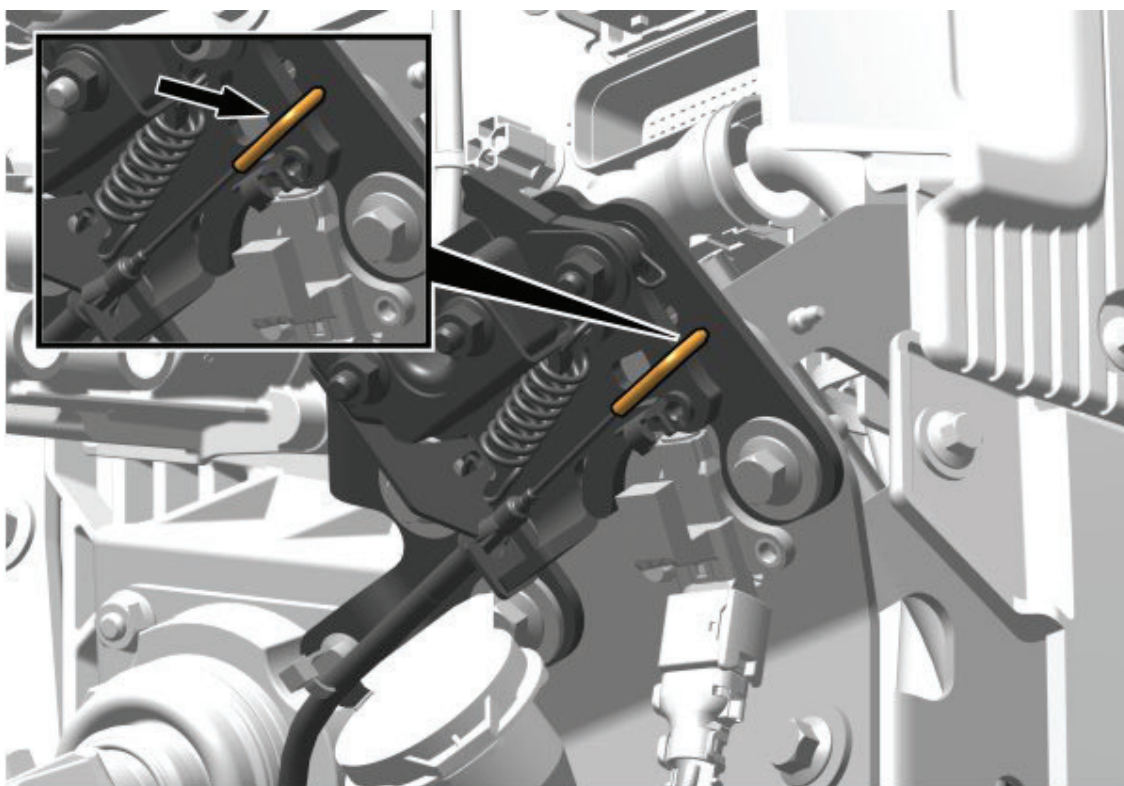
1	Check the hood to cowl gap.			
	Required material			
	A	GAUGE	88800845	1 pc



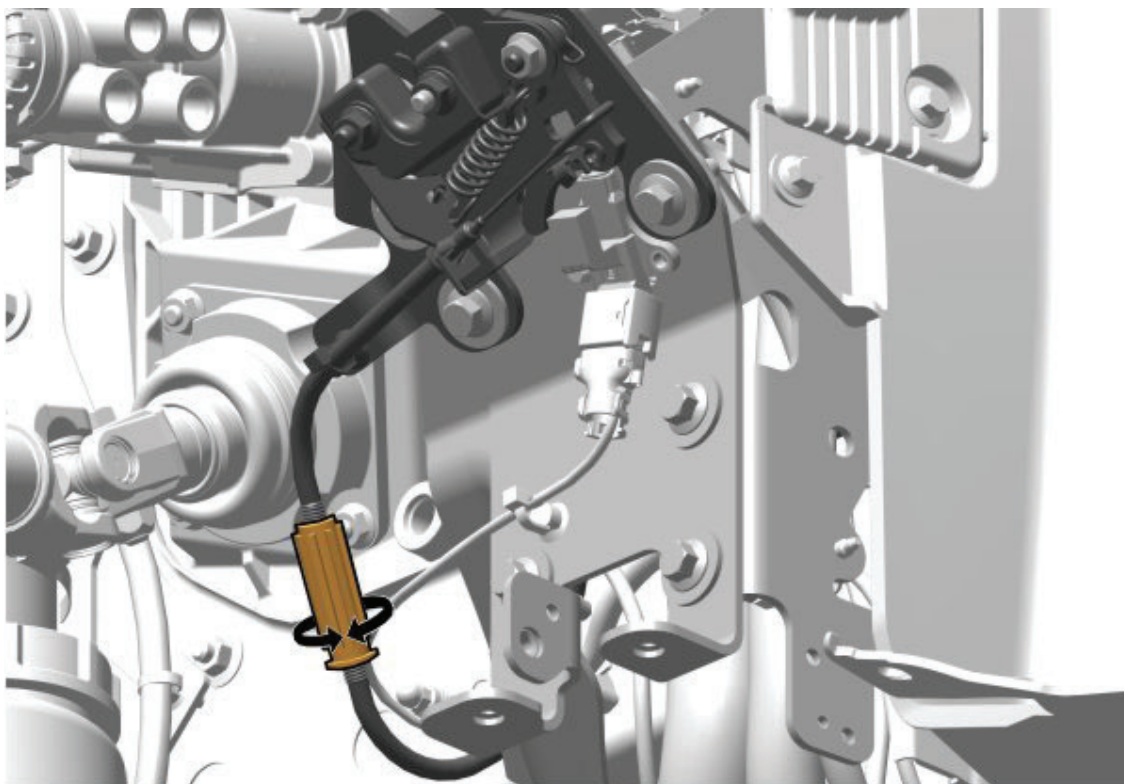
2	Perform this procedure when the condition below is met.
	Conditions
	If the gap needs to be adjusted
	Adjust the hood.
	i Note If the hood to cowl gap is correct but is being forced to be flush, loosen all latch and bracket mounting bolts. Open and close the hood several times and recheck the hood-to-cowl gaps. If the hood is not flush with the cowl, the hood needs to be adjusted.



5	Remove the cable from the latch.
	Note Keep the latch in the unlocked position.
6	Check the cable adjustment.
	Service hint If you can pull out on the cable and easily position the end of the cable into the groove that is located on the top of the latch trigger, the adjustment is correct.



7	Adjust the cable as needed.
	Service hint To achieve the proper cable adjustment: Pull on the cable to remove slack. While pulling on the cable, rotate the turnbuckle until the end of the cable can be positioned freely into the groove that is located on the top of the latch trigger. When this is reached, the adjustment is complete.

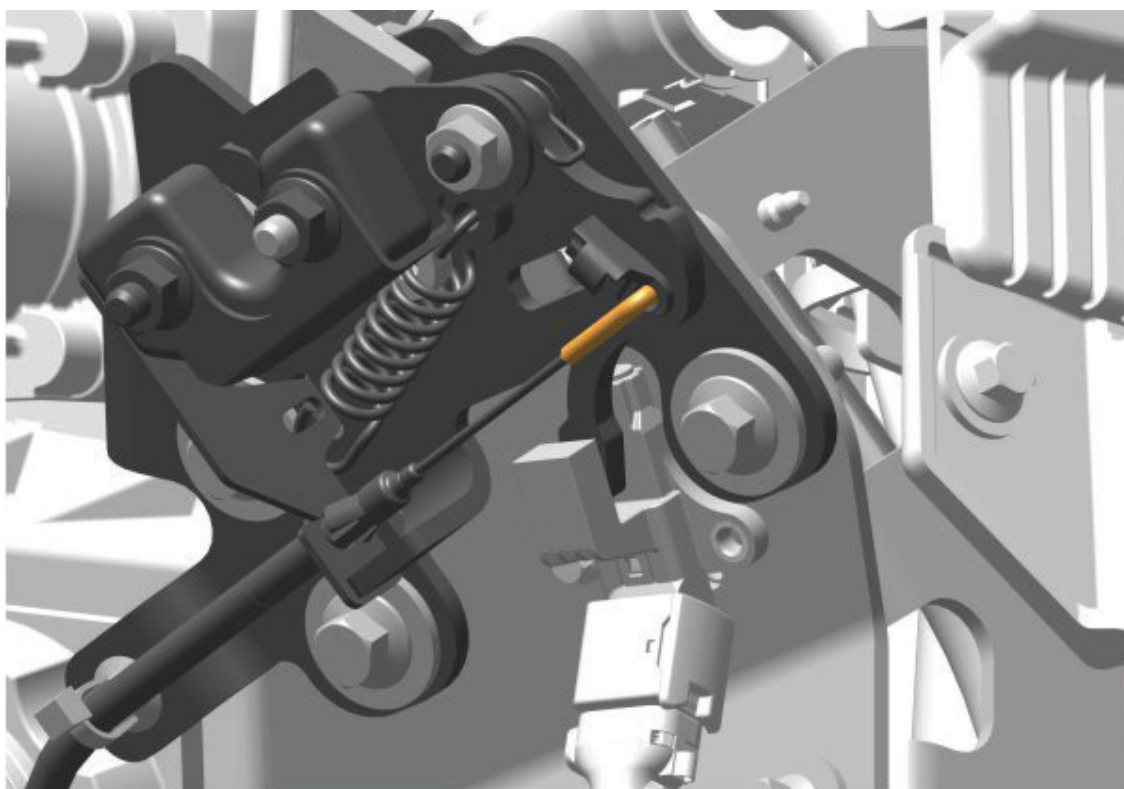


8 Reinstall the cable.



Note

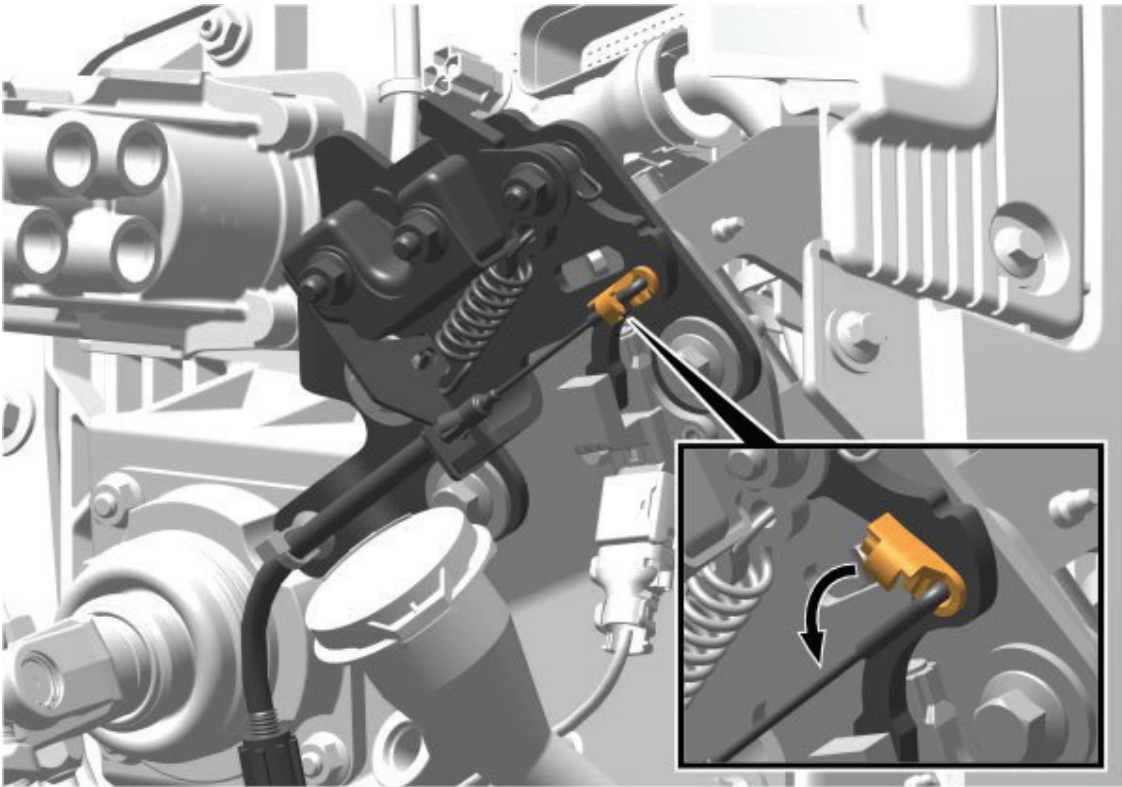
The release cable will have visible slack when attached to the latch.



9 Position the lock.

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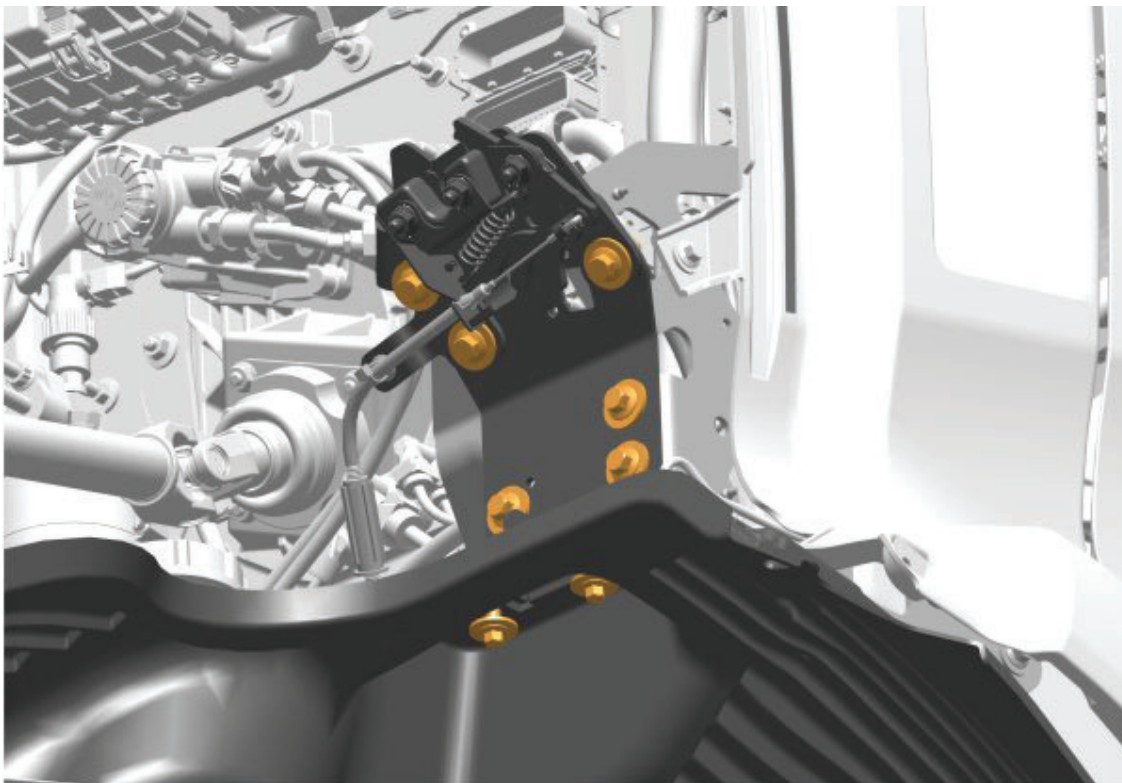
10 Perform the same operations on the other side in the same way.

11 Loosen the screws.



Note

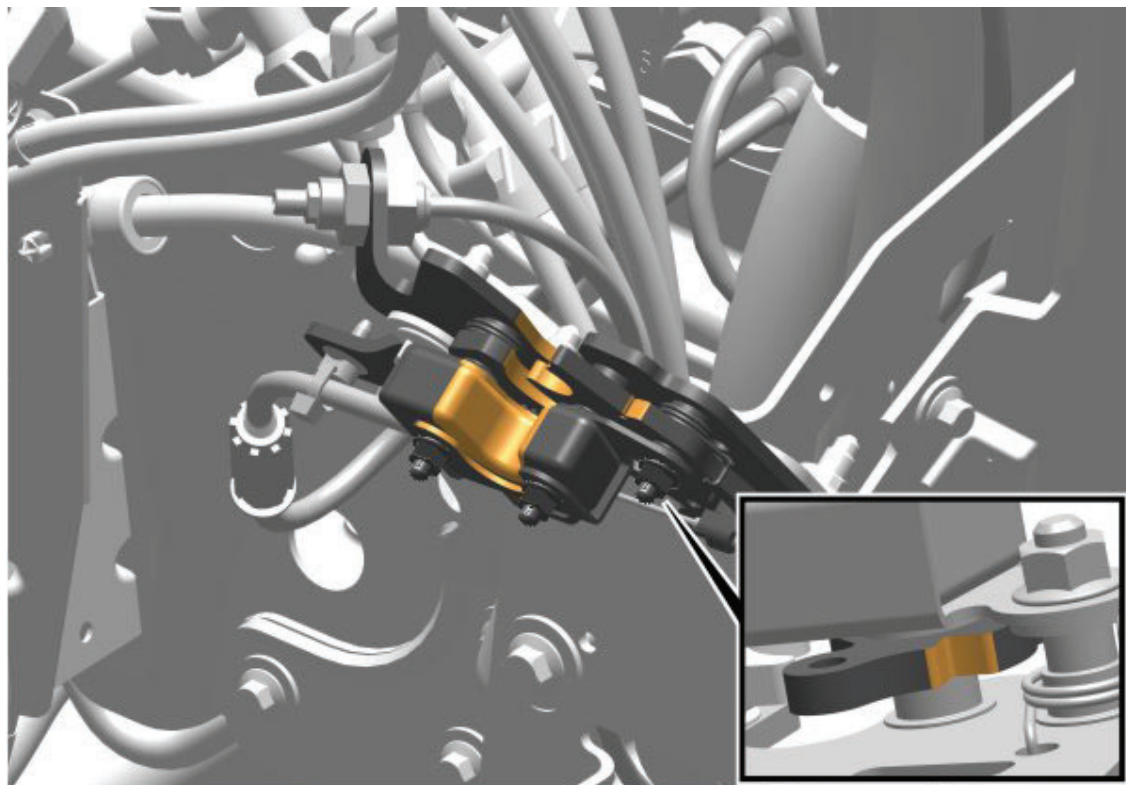
Ensure that all mounting screws are hand tight.



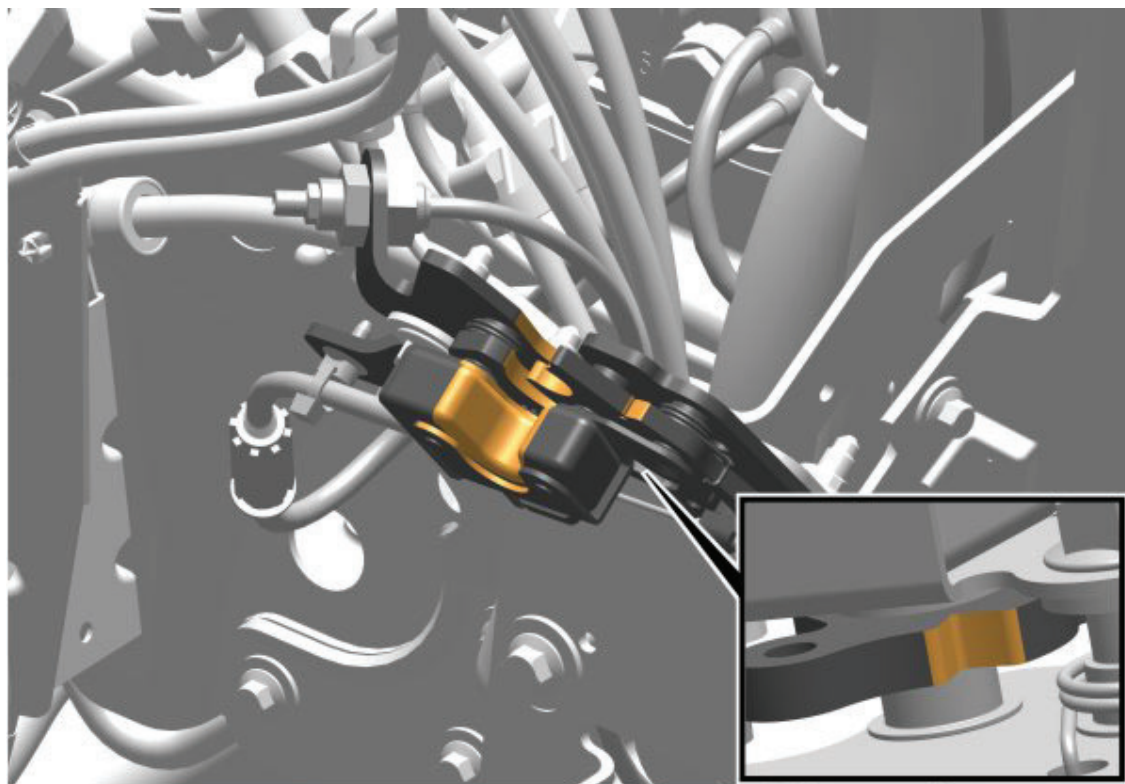
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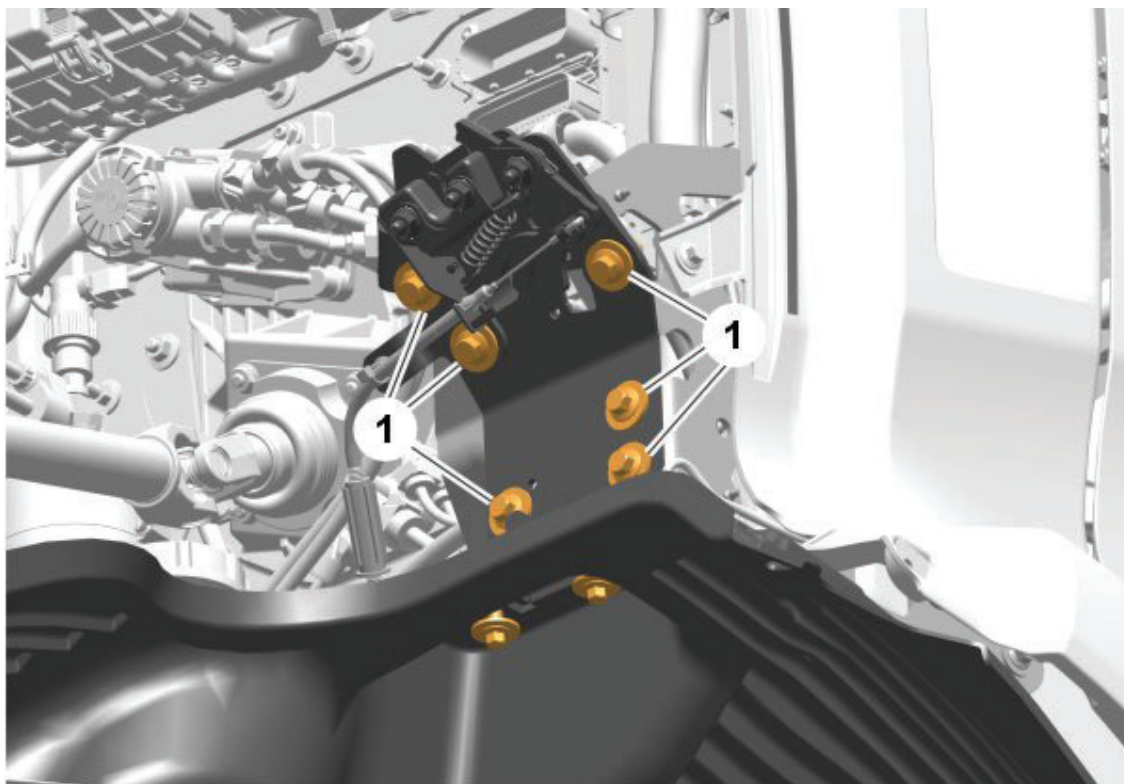
12	Lubricate the top side of the latch. <table border="1" data-bbox="212 163 863 254"><tr><td data-bbox="212 163 289 226"></td><td data-bbox="289 163 863 254"> Note Lubricate latch and striker with white lithium grease. </td></tr></table>		Note Lubricate latch and striker with white lithium grease.
	Note Lubricate latch and striker with white lithium grease.		



13	Lubricate the bottom side of the latch. <table border="1" data-bbox="212 1171 863 1262"><tr><td data-bbox="212 1171 289 1234"></td><td data-bbox="289 1171 863 1262"> Note Lubricate latch and striker with white lithium grease. </td></tr></table>		Note Lubricate latch and striker with white lithium grease.
	Note Lubricate latch and striker with white lithium grease.		



14	Perform the same operations on the other side in the same way.	
15	Open and shut the hood several times to allow the bracket and latch to move as needed.	
16	Unlatch and raise the hood.	
17	Tighten the bolts.	
18	Torque tighten the screws (1).	
	Tightening torque	
	Latch, screw	48 ±8 Nm (35 ±6 lb _f ·ft)



19	Perform the same operation on the other side in the same way.
20	Check the operation. i Note The hood should hold tight with no rattles. Hood latch should catch and release with ease. No binding is felt in the latch or cables.
21	Lower the hood. i Note Ensure that the hood is latched.