

Front Engine Accessory Drive Update

Release: 1

Technician Skill Level: A

Revision Note: 11/2025 Initial Release

Market: North America

Service Category: Service Department

Applicability: Please refer to VDA+

Section: Function Group 263

Description:

Vehicles were assembled using the incorrect front engine accessory drive (FEAD) components.

Concern:

Incorrect FEAD components can lead to premature failure of the accessory belts.

Action:

Use the instructions in this document to install the correct FEAD components.

Warranty Information

This repair is covered by an authorized Service Program. Reimbursement is obtained through the normal claim handling process.		
Claim Type (used only when uploading from the Dealer Bus. Sys.)		B
Labor Code	Description	Hours
Main Code 2634-03-03-10	Drive Belt, Belt Tensioner, and Idler Pulley, Replacement (All)	0.7
3218-03-02-01	Alternator Mounting Bracket, Replacement	0.7
3218-03-02-05	Belt Tensioner, Alternator, Replacement	0.5
Causal Part	24390274	
SCC Authorization Code	S4644	
Expiration Date	January 31, 2027	

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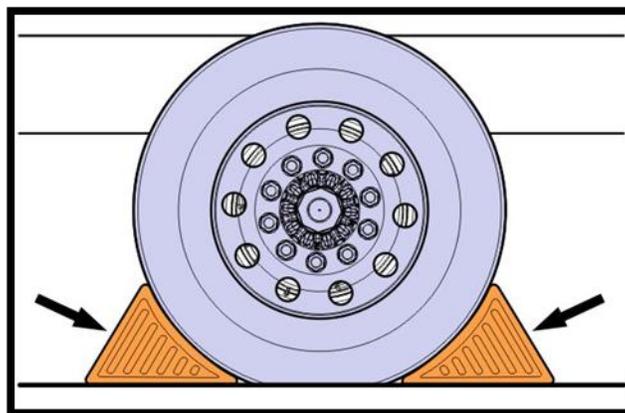
Parts Information

Order using the normal process

Part Numbers	Part Names	Quantity
24170327	Idler Bracket (Fan Belt)	1
24390274	Idler Pully (Fan Belt)	1
24389899	Tensioner (Fan Belt)	1
24338502	Belt (Fan)	1
60112984	Socket Screw, Tensioner (Fan Belt)	1
24147478	Alternator Bracket	1
24377136	Tensioner (Alternator Belt)	1
984759	Tensioner Flang Screw (Alternator)	1
23857789	Alternator Belt	1

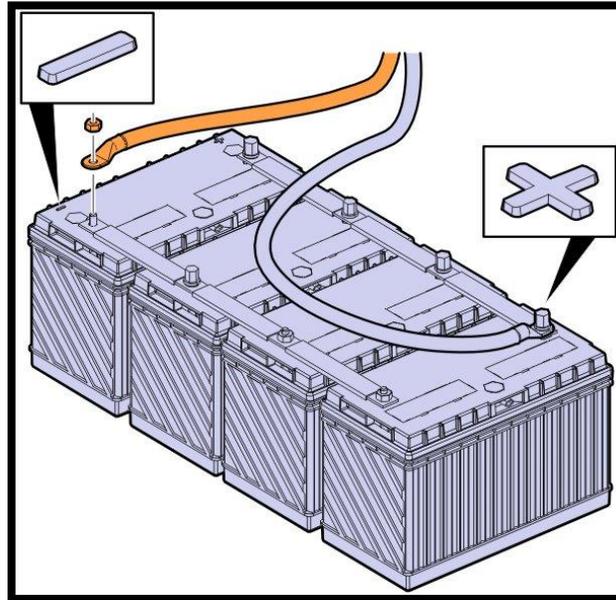
Repair Procedure

1. Park the vehicle on level surface.
2. Apply parking brake.
3. Place the transmission in park or neutral.
4. Turn off ignition.
5. Install wheel chocks.

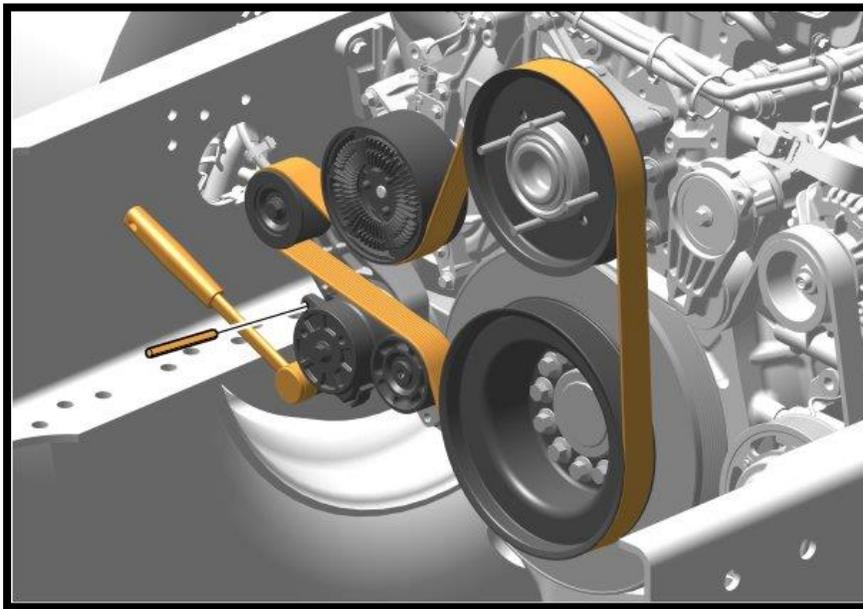


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6. Disconnect the cable from the negative terminal.

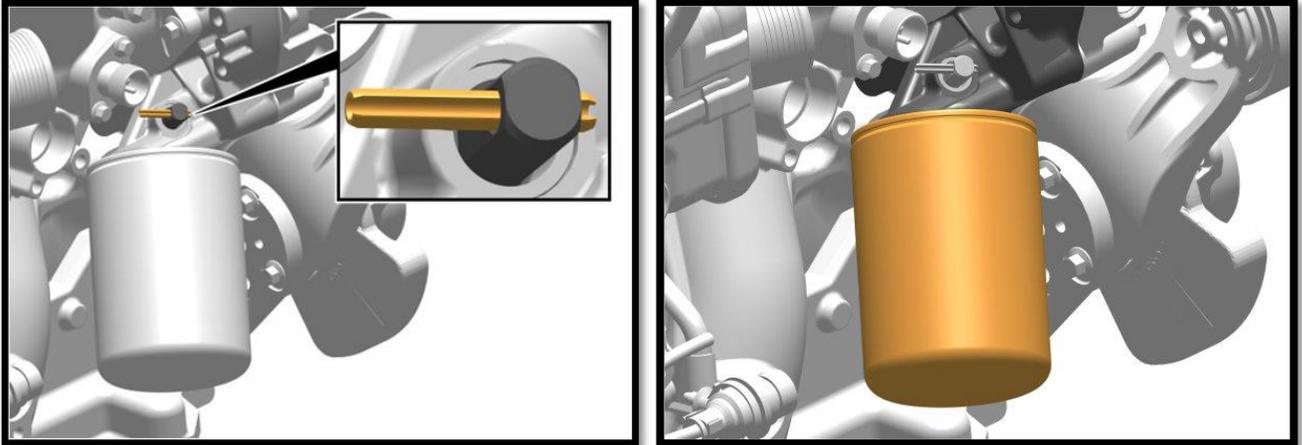


7. Disengage the fan belt tensioner.
8. Remove and **discard** fan belt.

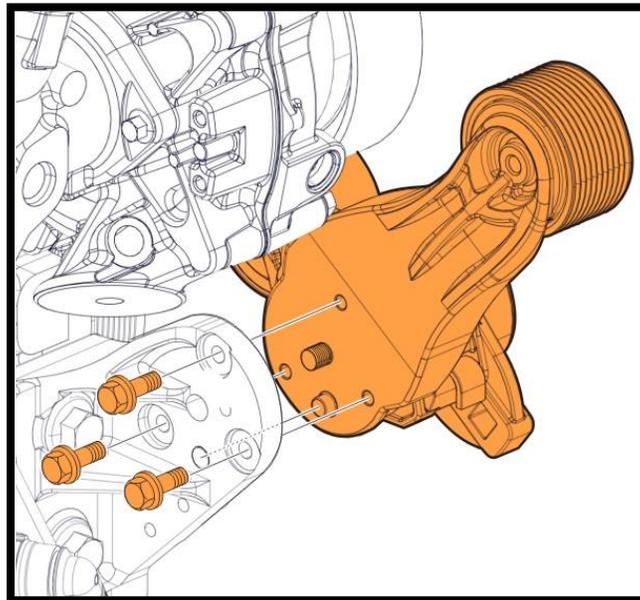


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9. Close the shut-off on the coolant filter housing and remove filter (**Only required if equipped with a coolant filter**). (**Retain filter for reinstallation**)

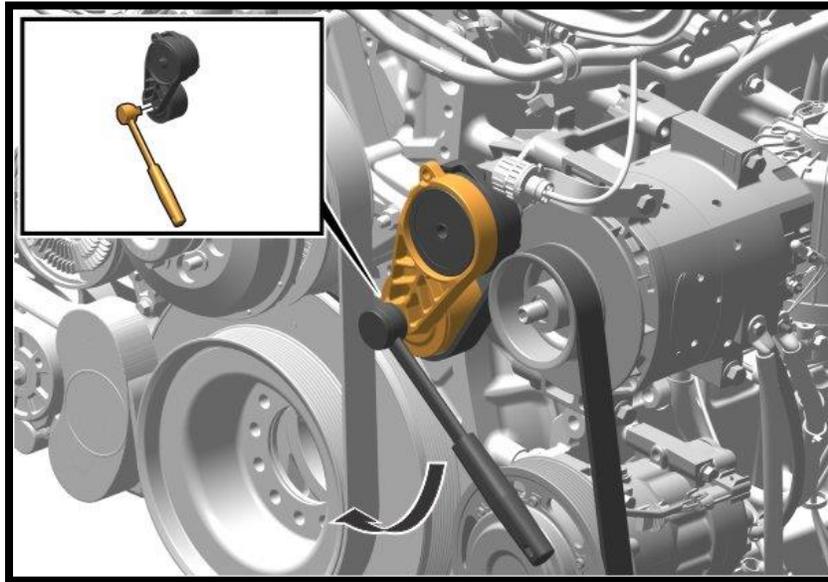


10. Remove and **discard** the idler pulley and tensioner assembly. (**Retain mounting hardware for reinstallation**)

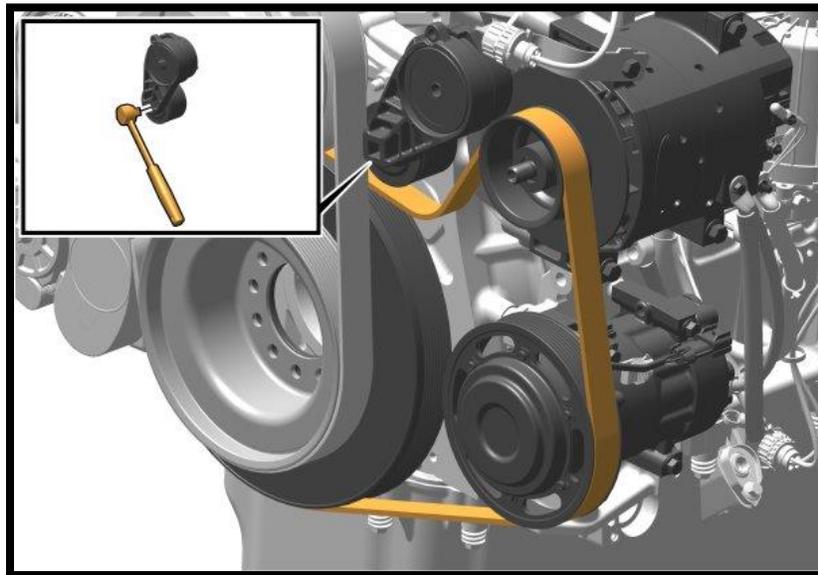


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11. Disengage the alternator belt tensioner.

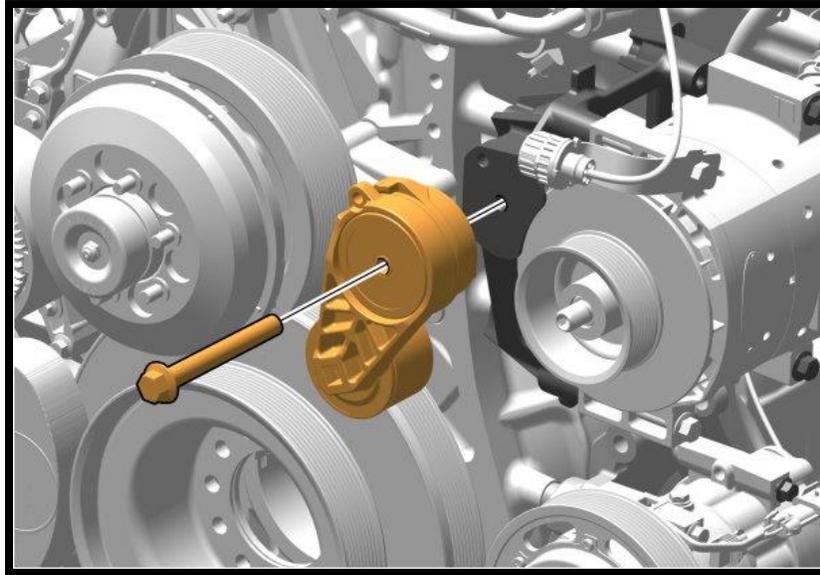


12. Remove and **discard** alternator belt.



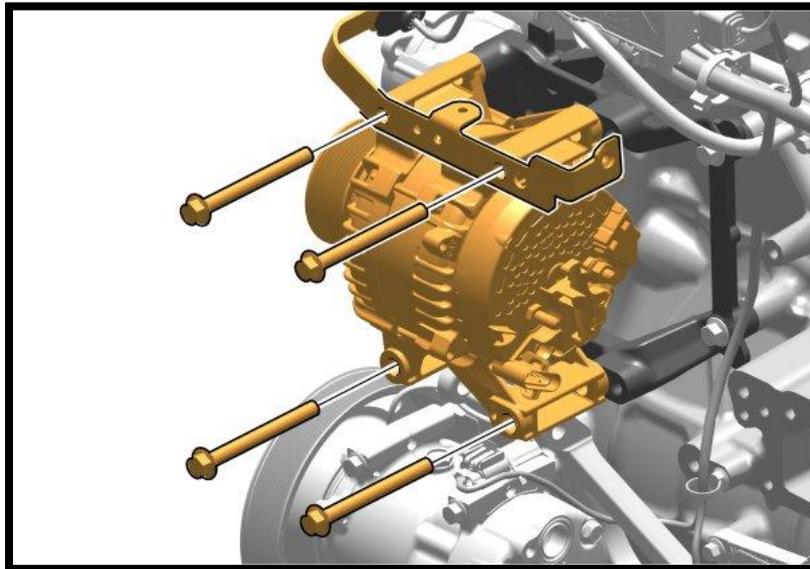
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13. Remove and **discard** the alternator belt tensioner and mounting hardware.



14. Disconnect alternator electrical connections.

15. Remove alternator. (**Retain alternator and hardware for reinstallation**)



16. Remove and **discard** alternator mounting bracket. (**Retain mounting hardware for reinstallation**)

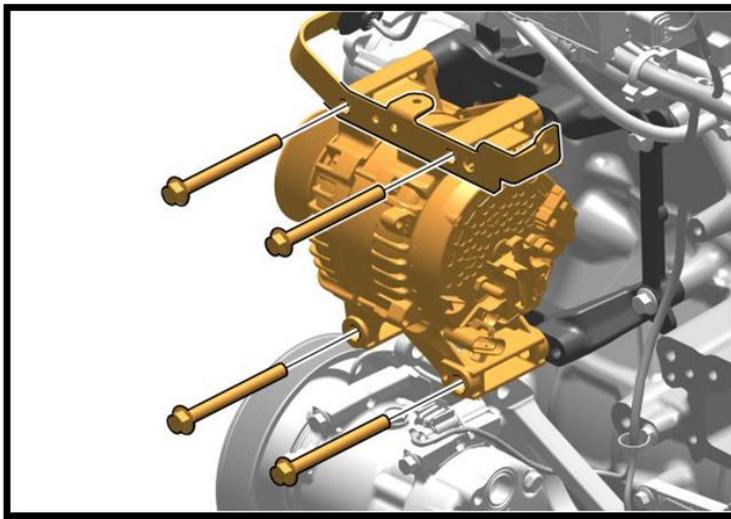
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17. Install and torque new alternator mounting bracket (PN-24147478). (Use retained hardware)

Tightening torque	
Alternator Mounting Bracket, screws	60 ±10 Nm (44 ±7 lb _r ·ft)

18. Install and torque alternator.

Tightening torque	
Alternator, screw	60 ±10 Nm (44 ±7 lb _r ·ft)



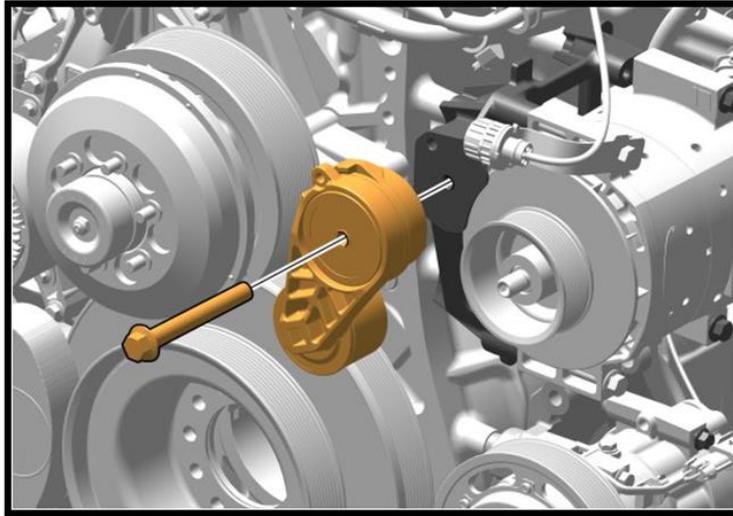
18. Connect alternator electrical connections.

Tightening torque	
Alternator Terminal Nut	12 ±2 Nm (9 ±1 lb _r ·ft)

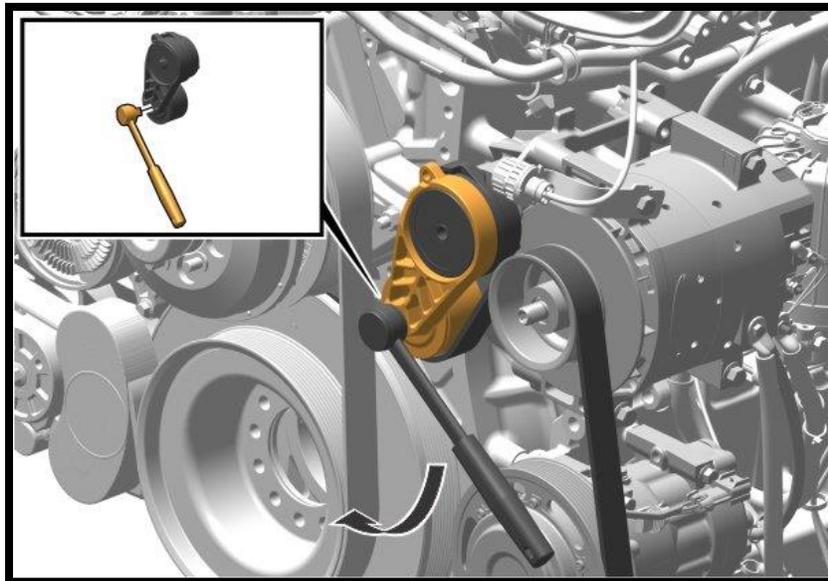
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21. Install and torque new alternator belt tensioner (**PN-24377136**) and mounting bolt (**PN-984759**).

Tightening torque	
Belt tensioner, screw	48 ±8 Nm (35 ±6 lb _r .ft)

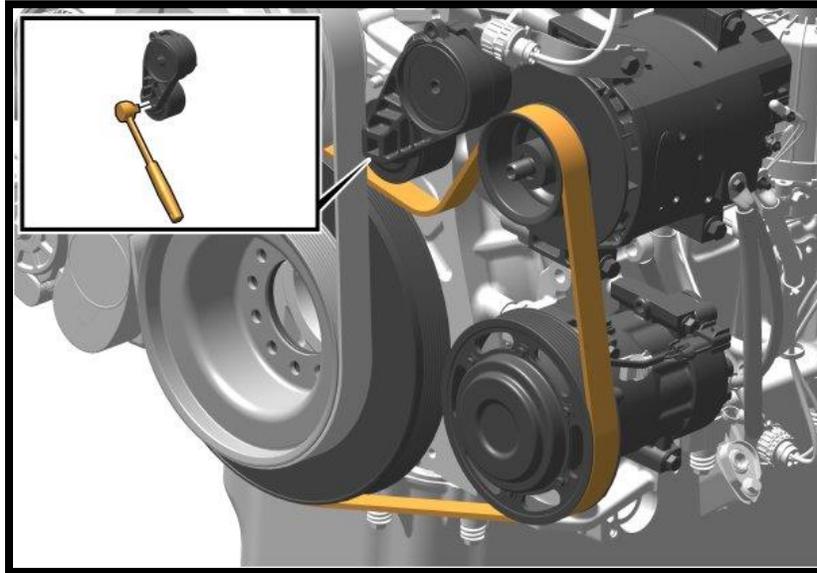


19. Disengage alternator belt tensioner.



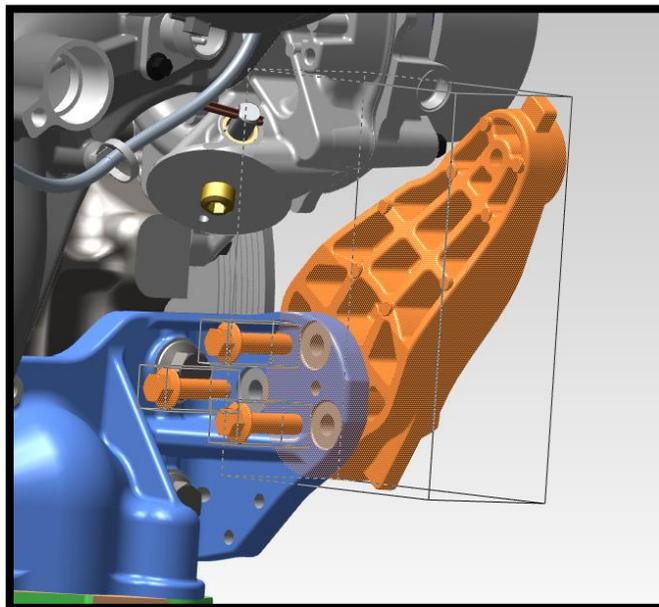
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20. Install the new alternator belt (PN-23857789).



21. Install and torque the new fan belt idler pulley bracket (PN-24170327).(Use retained hardware)

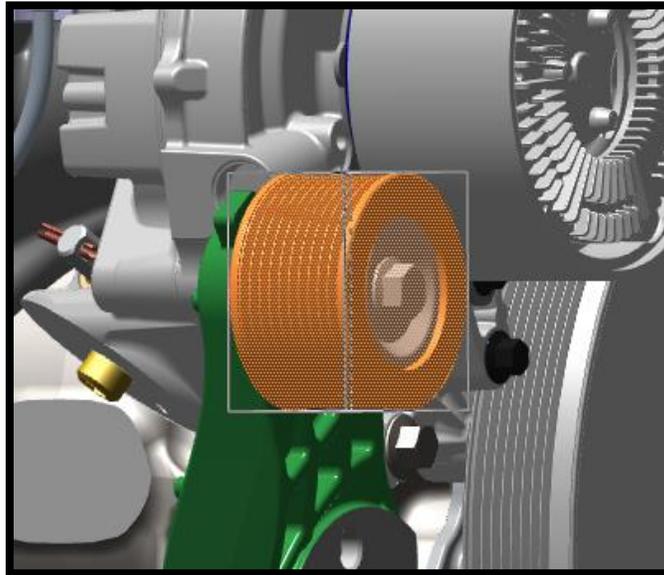
Tightening torque	
Idler Pulley Bracket, screws	60 ±10 Nm (44 ±7 lb _r -ft)



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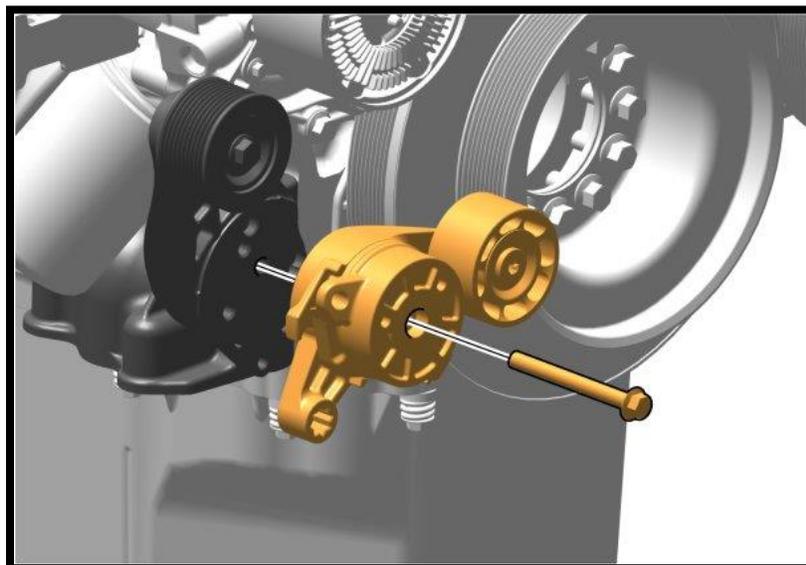
22. Install and torque the new idler pulley (**PN-24390274**).

Tightening torque	
Idler Pulley, screw	50 ±5 Nm (37 ±4 lbf·ft)



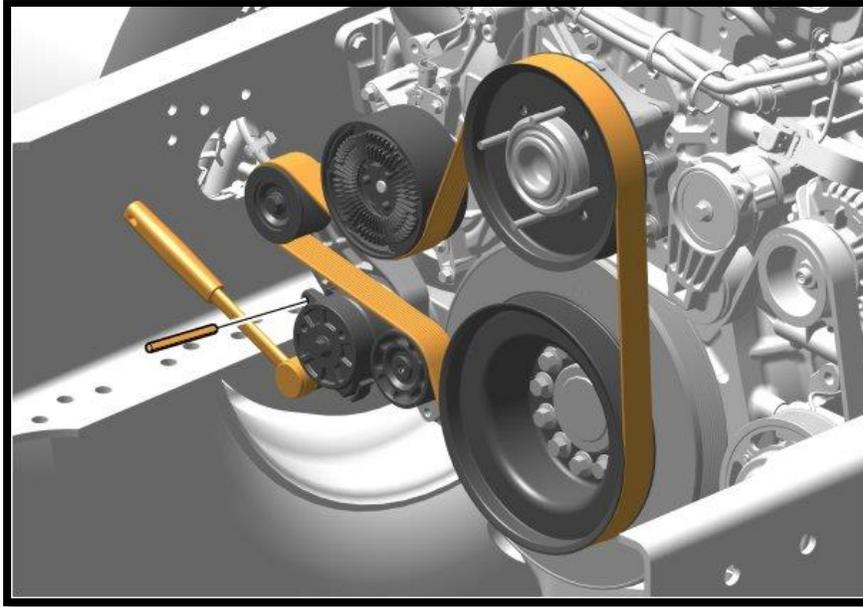
23. Install and torque new fan belt tensioner (**PN-24389899**) and mounting hardware (**PN-60112984**).

Tightening torque	
Idler Pulley Bracket, screws	60 ±10 Nm (44 ±7 lbf·ft)

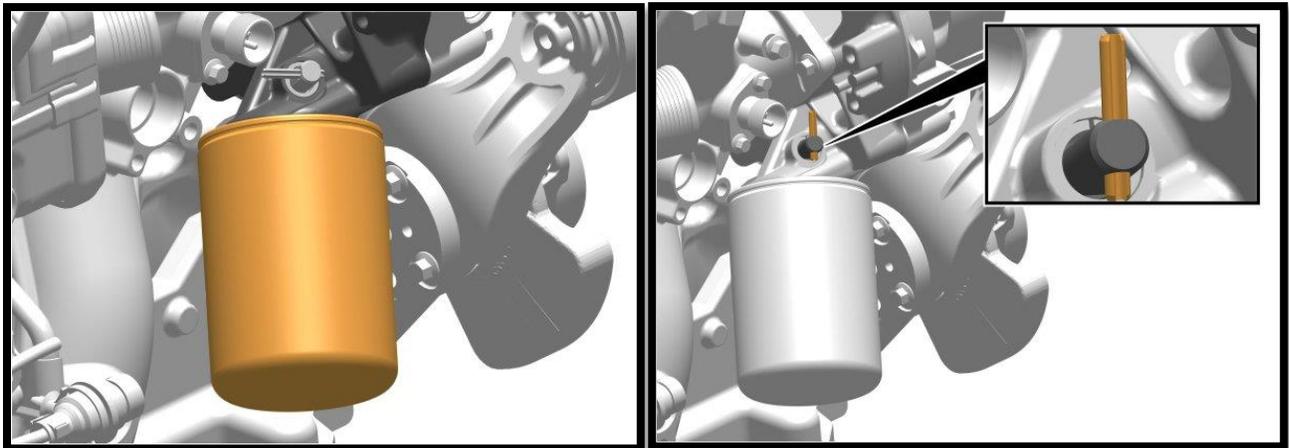


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24. Disengage fan belt tensioner.
25. Install new fan belt (PN-24338502).

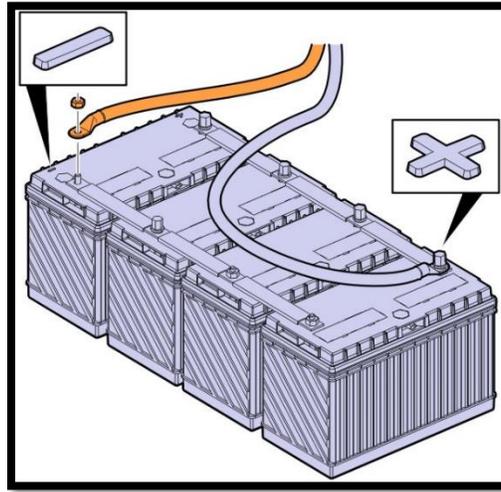


26. Install **retained** coolant filter and open the shut-off on the coolant filter housing. (**Only required if equipped with a coolant filter**).

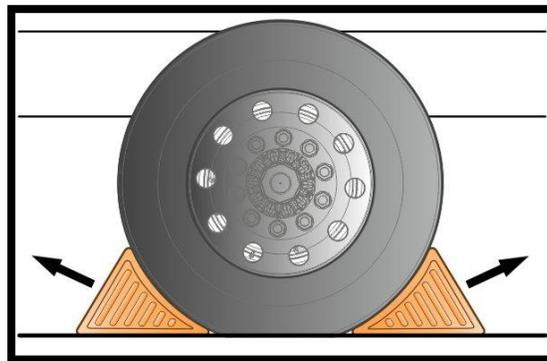


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27. Connect the cable from the negative terminal.



28. Remove wheel chocks.



29. Release truck.