



Volvo Chassis - Field Service Bulletin Trucks (FSB) FSB 561 027, Compressor Clutch, Replacement (Clutched Air Compressor)



> Internal Content

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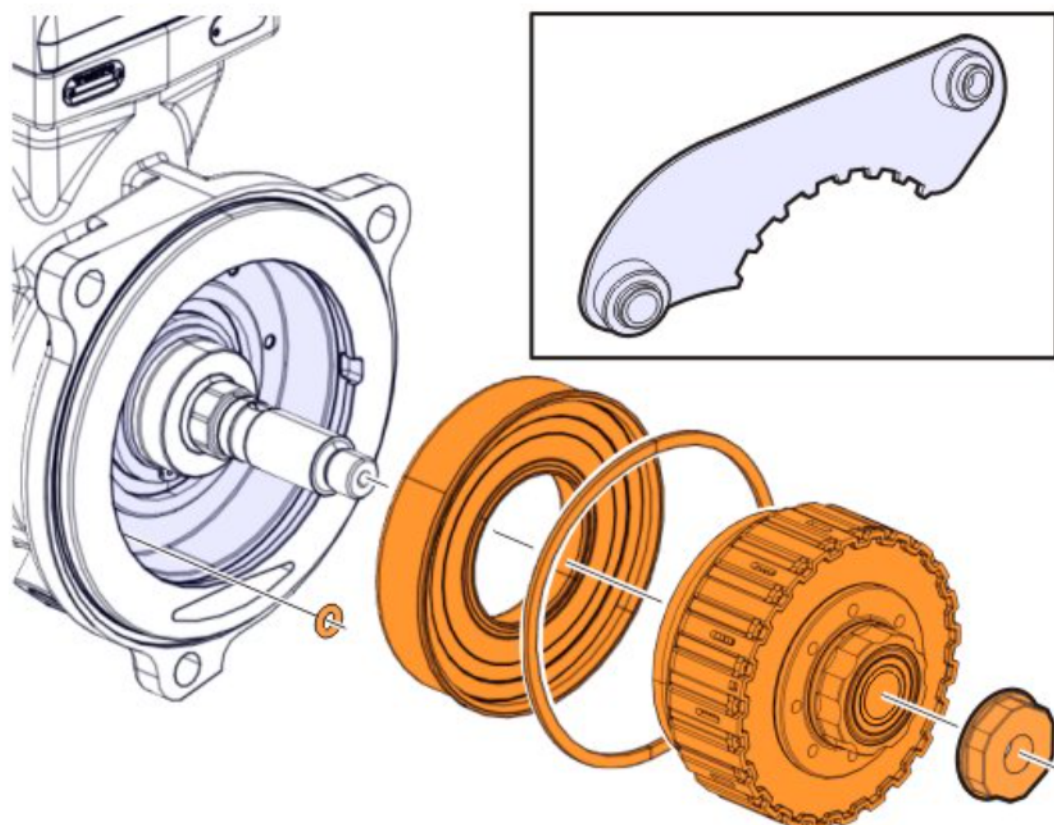
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FSB 561-027, Compressor Clutch, Replacement

(May 2017)

Certain VOLVO VN trucks built from 01/01/2014, and equipped with D11 or D13 engines, may experience failure of the clutched compressor. If this condition exists, follow the compressor clutch replacement procedure outlined in this Field Service Bulletin (FSB). Additionally, the compressor clutch replacement procedure outlined in this FSB is for a clutched compressor removed from the engine.



Required Parts and Tools (Compressor Clutch, Replacement)

Item	Description	Part Number	Qty
1	Mounting Kit	85116639	1
2	Clutch Kit	22885139	1
3	Actuator	22144014	1
4	Counter Hold Tool (Hardware not Supplied With Tool)	88800438	1

Compressor Clutch, Replacement Procedure (With the Compressor Removed from the Engine)

You must read and understand the precautions and guidelines in Service Information, group 50, "General Safety

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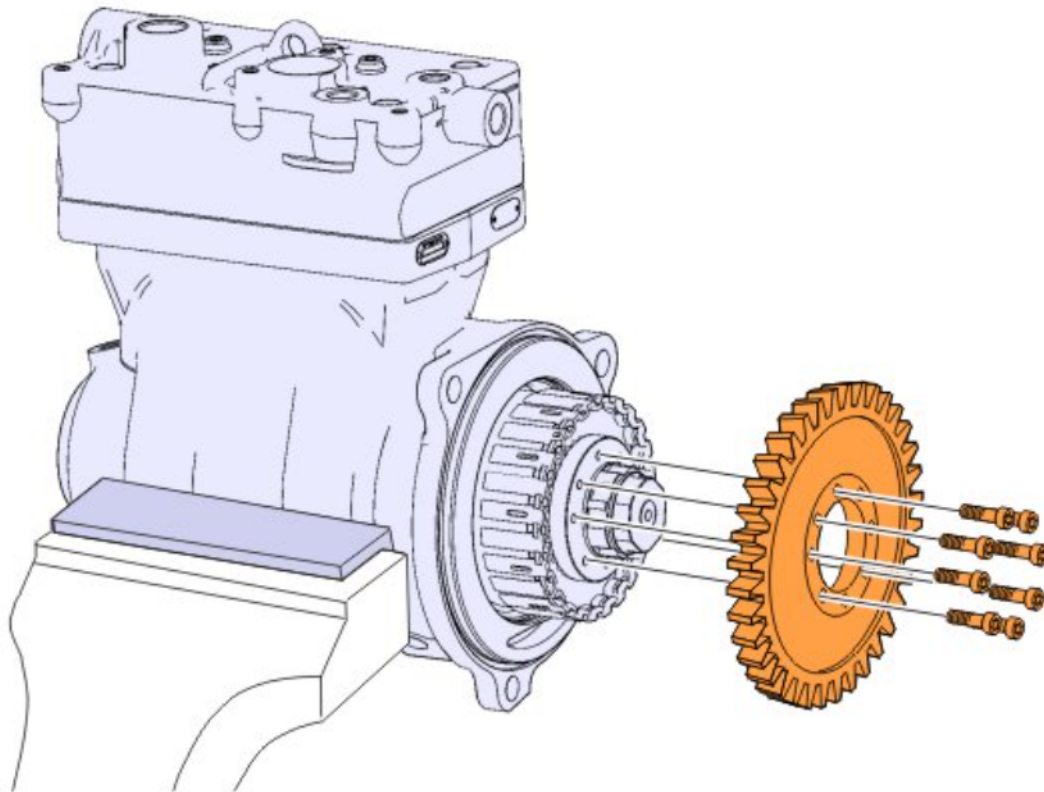
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Practices, Brakes" before performing this procedure. If you are not properly trained and certified in this procedure, ask your supervisor for training before you perform it.

NOTE: Information is subject to change without notice. Illustrations are used for reference only and can differ slightly from the actual vehicle being serviced. However, key components addressed in this information are represented as accurately as possible.

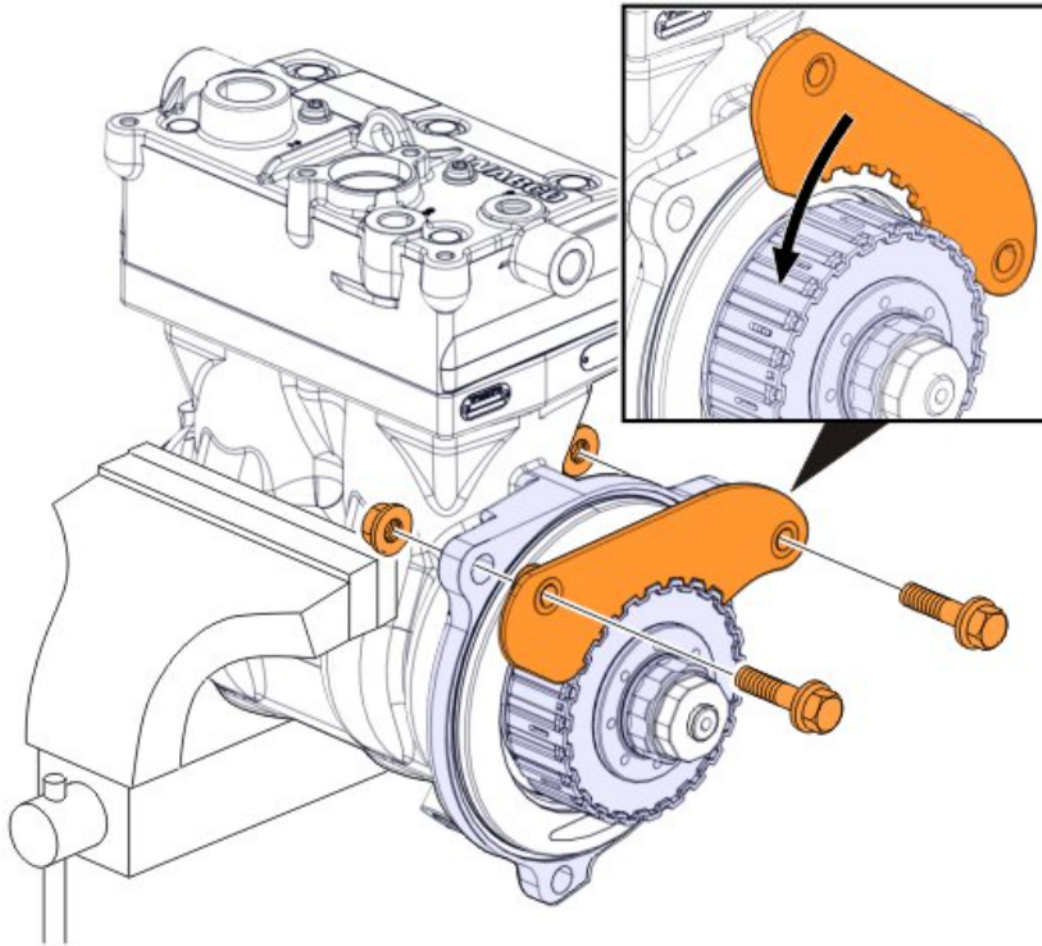
Note: The compressor clutch replacement procedure outlined in this FSB is for a clutched compressor removed from the engine.

1. Secure the removed compressor in a vise.
2. Remove the fasteners securing the drive gear.
3. Remove the drive gear.

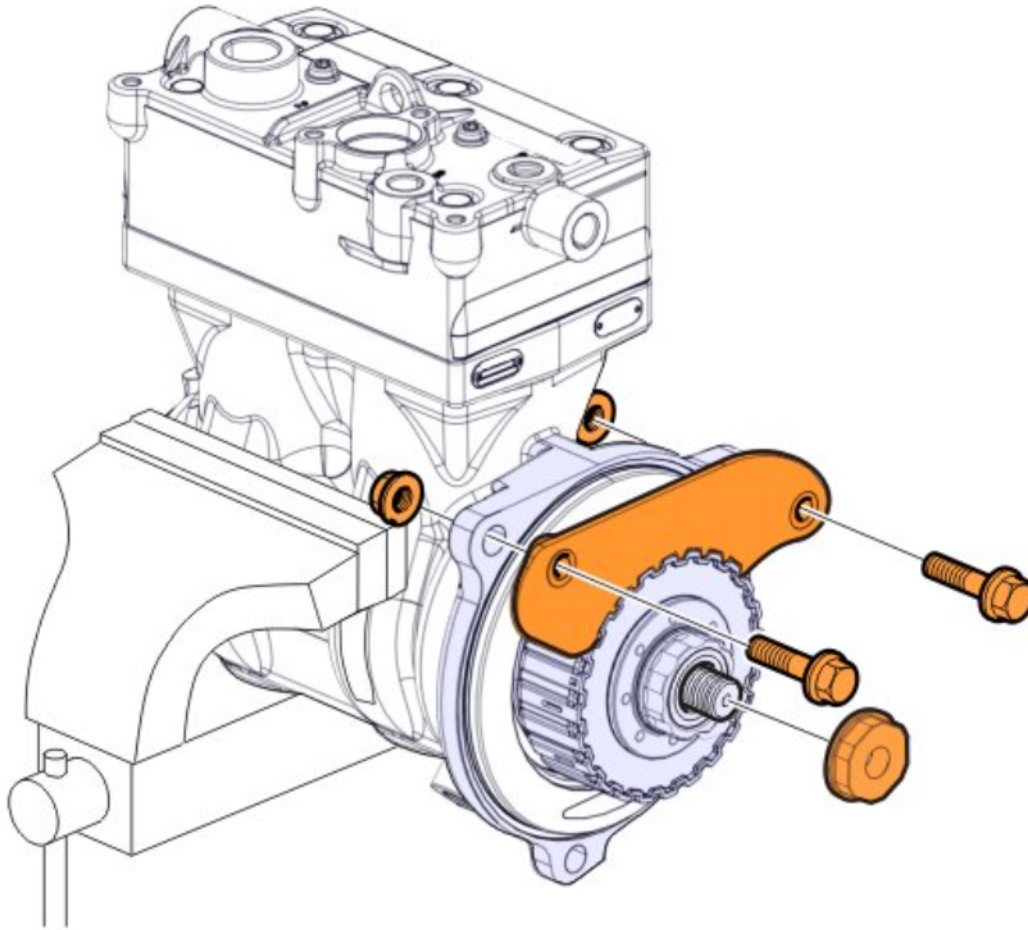


4. Position the counter hold tool (part number 88800438) on the compressor housing and secure with fasteners as shown in the figure below.

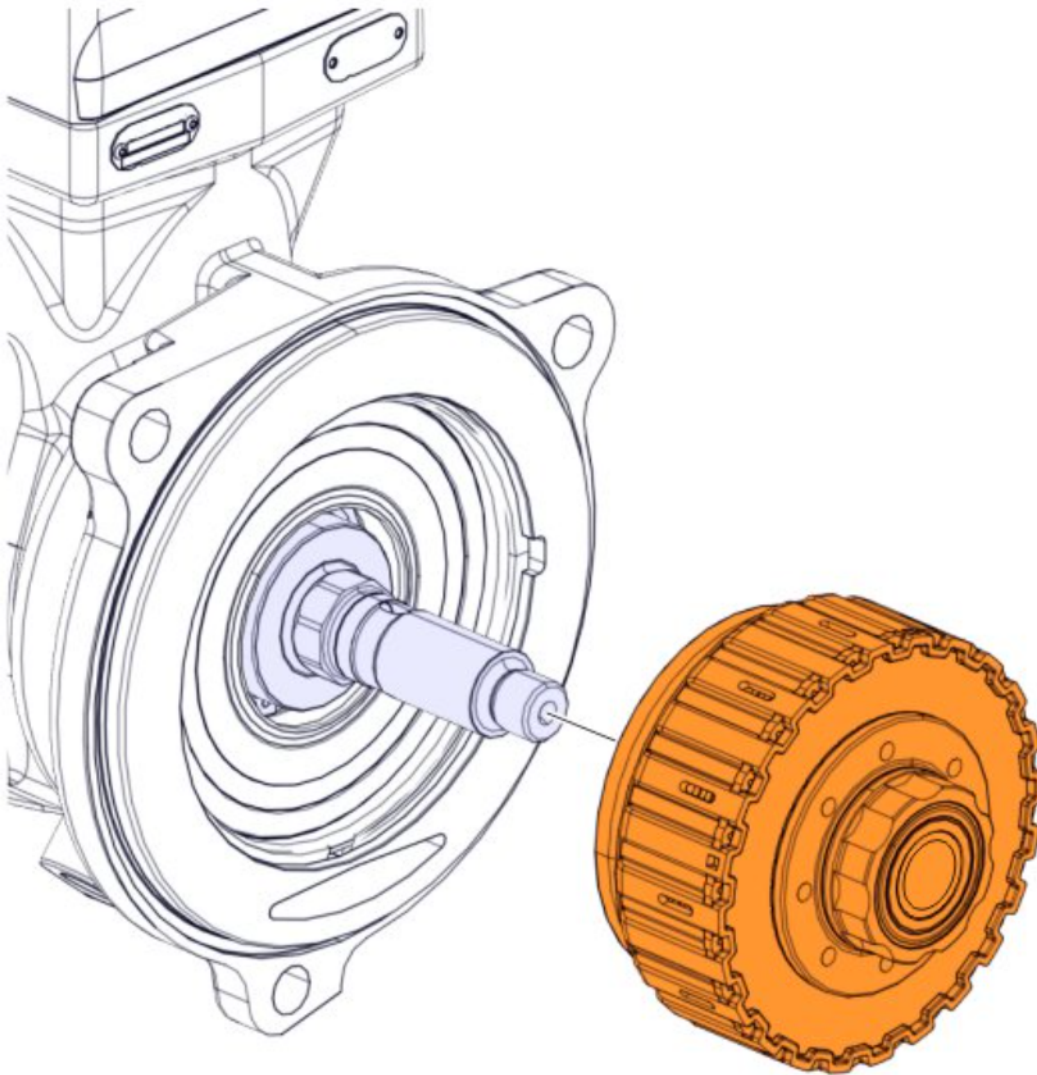
Note: Bolt and nut not supplied.



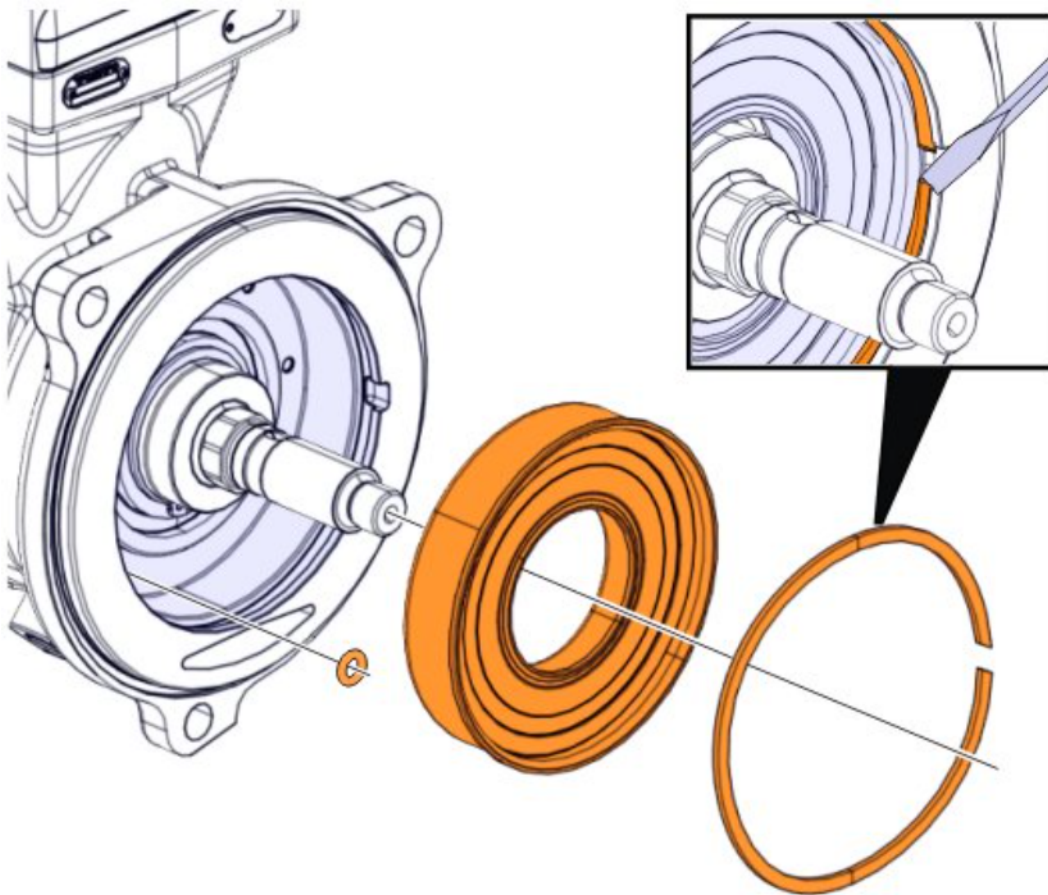
5. Remove the nut securing the clutch assembly.
6. Remove the fasteners securing the counter hold tool.
7. Remove the counter hold tool.



8. Remove the clutch assembly.

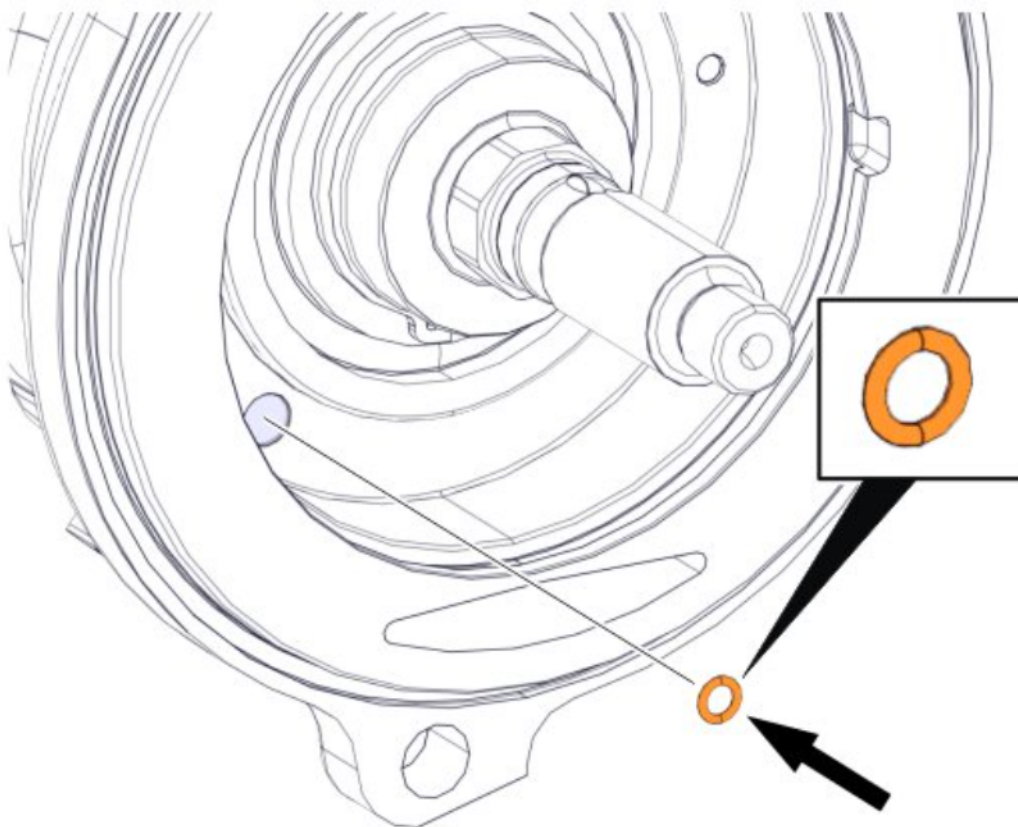


9. Remove the lock ring, regulation unit, and O-ring from the clutch housing.



10. Clean the inside of the clutch housing.

11. Lubricate and install a new O-ring in the clutch housing as shown.

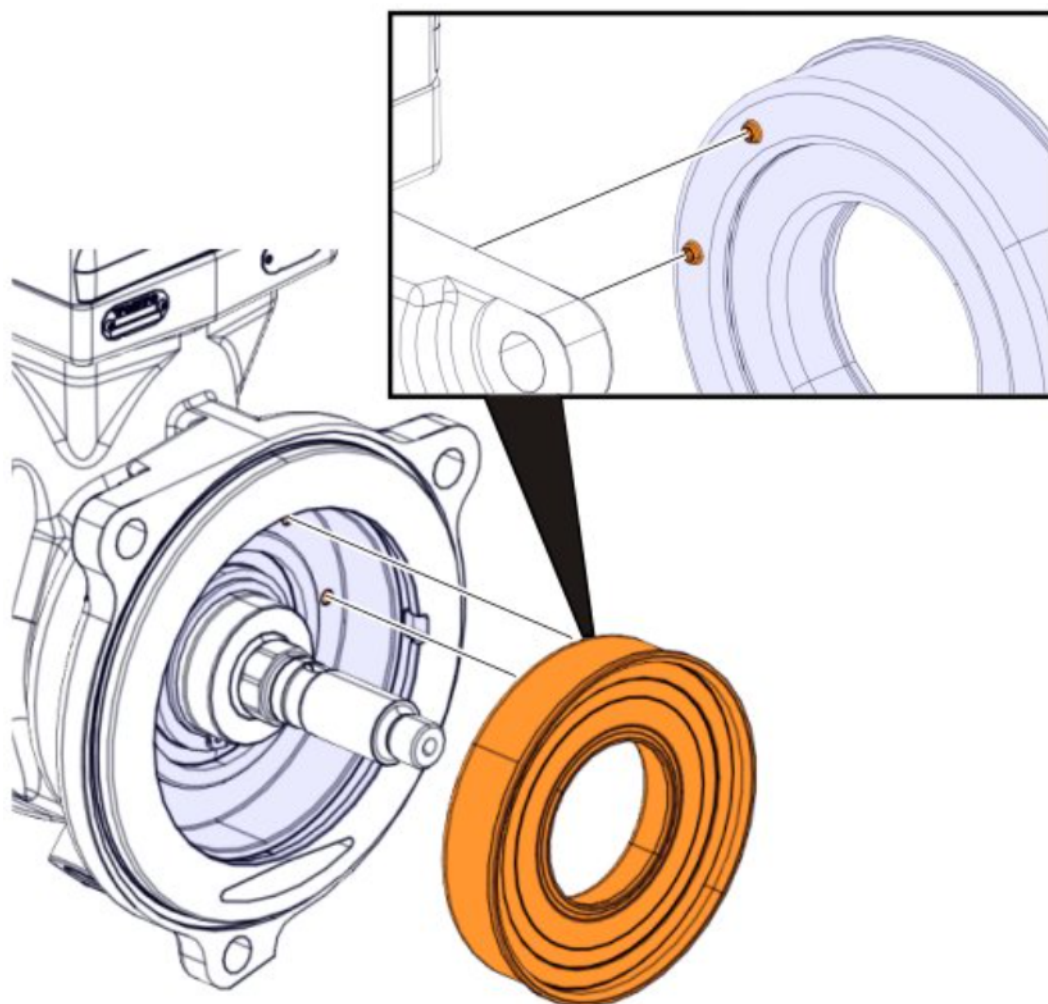


12. Install a new regulation unit as shown in the figure below.

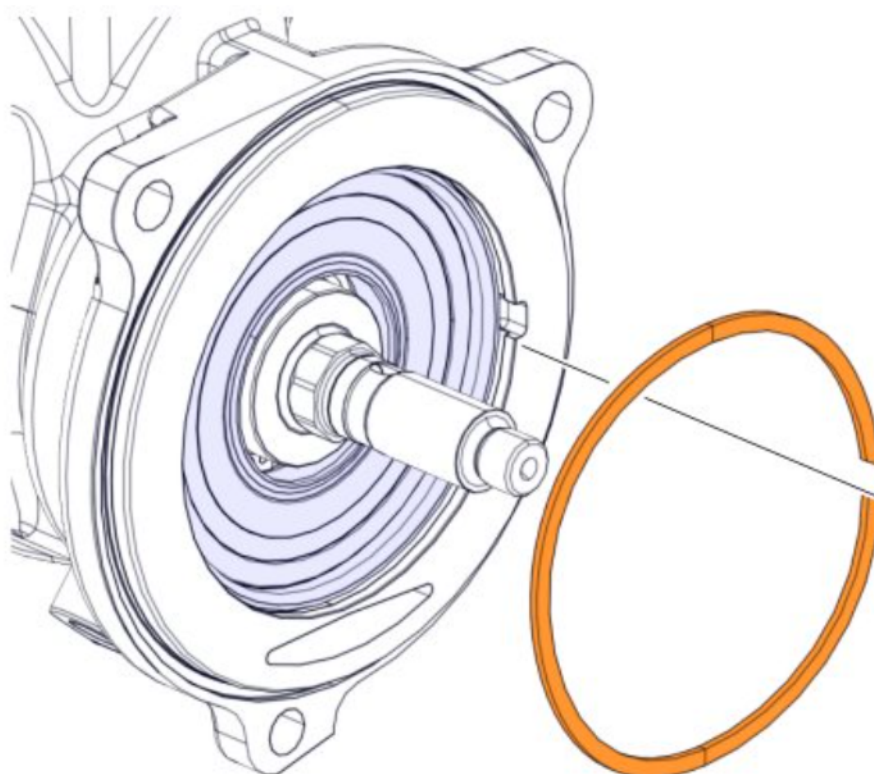
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Note: Ensure the locking pins of the regulation unit are aligned correctly in the clutch housing.



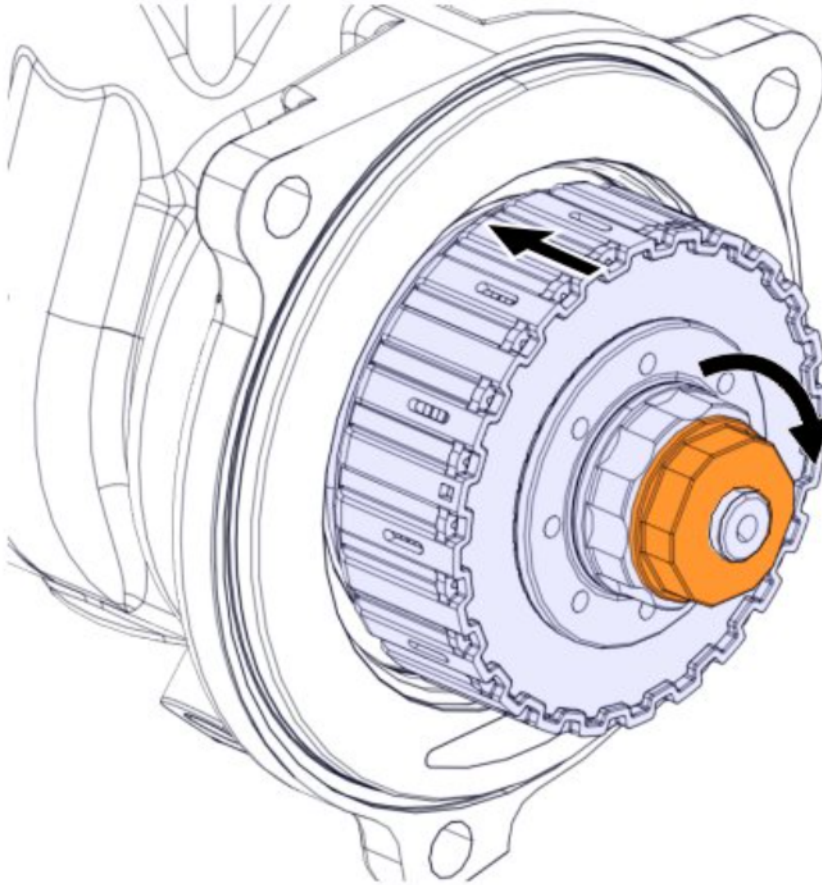
13. Install the lock ring in the clutch housing.



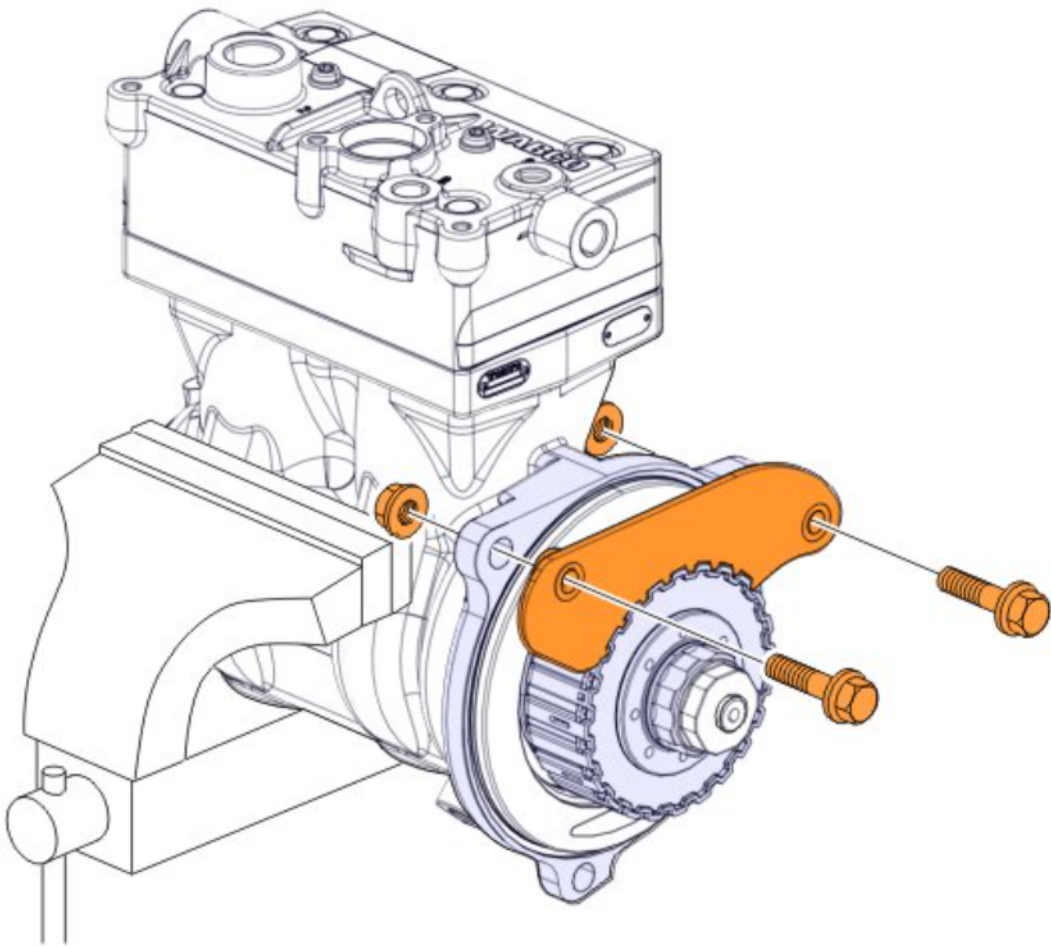
14. Clean the compressor shaft surface of any dirt or debris before installing the clutch assembly.

Note: If it is not possible to install the complete clutch assembly by hand, remove the inner disc carrier and install the sleeve by tapping it carefully with a mallet until a couple of threads are exposed on the clutch shaft for the nut. Then, install the inner disc carrier.

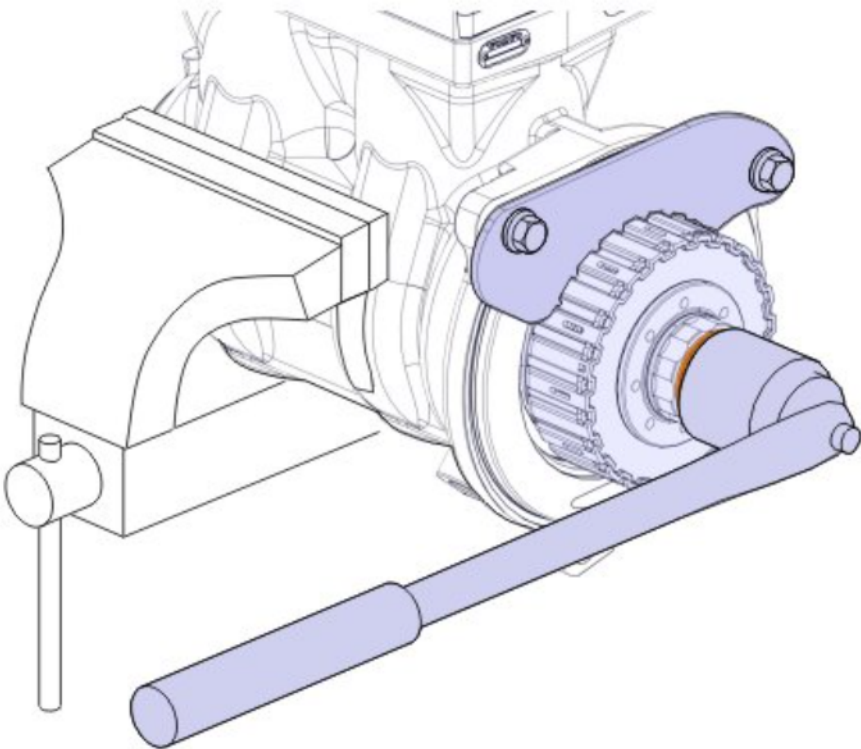
15. Install a new nut and hand tighten until the clutch bottoms in the clutch housing.



16. Position the counter hold tool (part number 88800438) on the compressor housing and secure with fasteners as shown in the figure below.



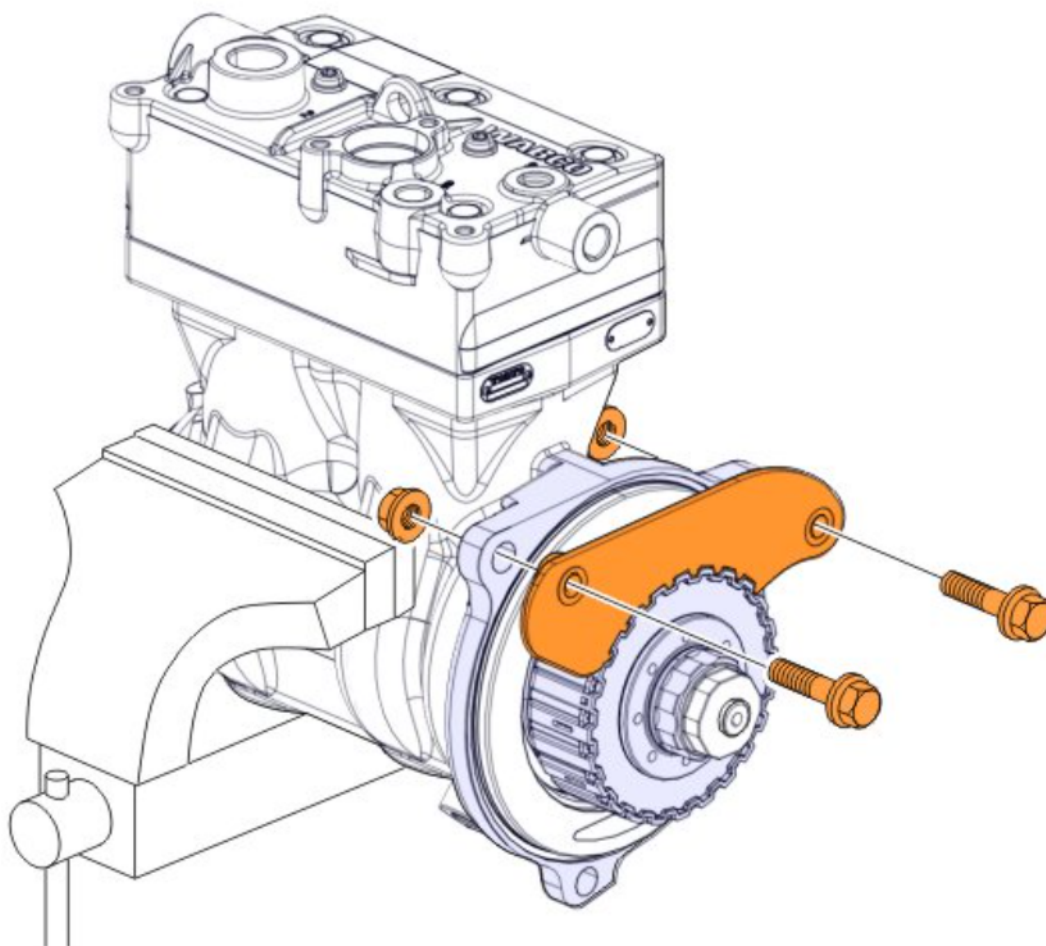
17. Tighten the nut to specifications shown in the table below.



Compressor Clutch Nut Torque Specifications	
Step	Torque Specification

1	Tighten the nut to 100 Nm (74 lb-ft)
2	Loosen the nut (≈ 90 degrees)
3	Tighten the nut 45 ± 5 Nm (33 ± 4 lb-ft)
4	Angle tighten the nut 95 ± 5 degrees

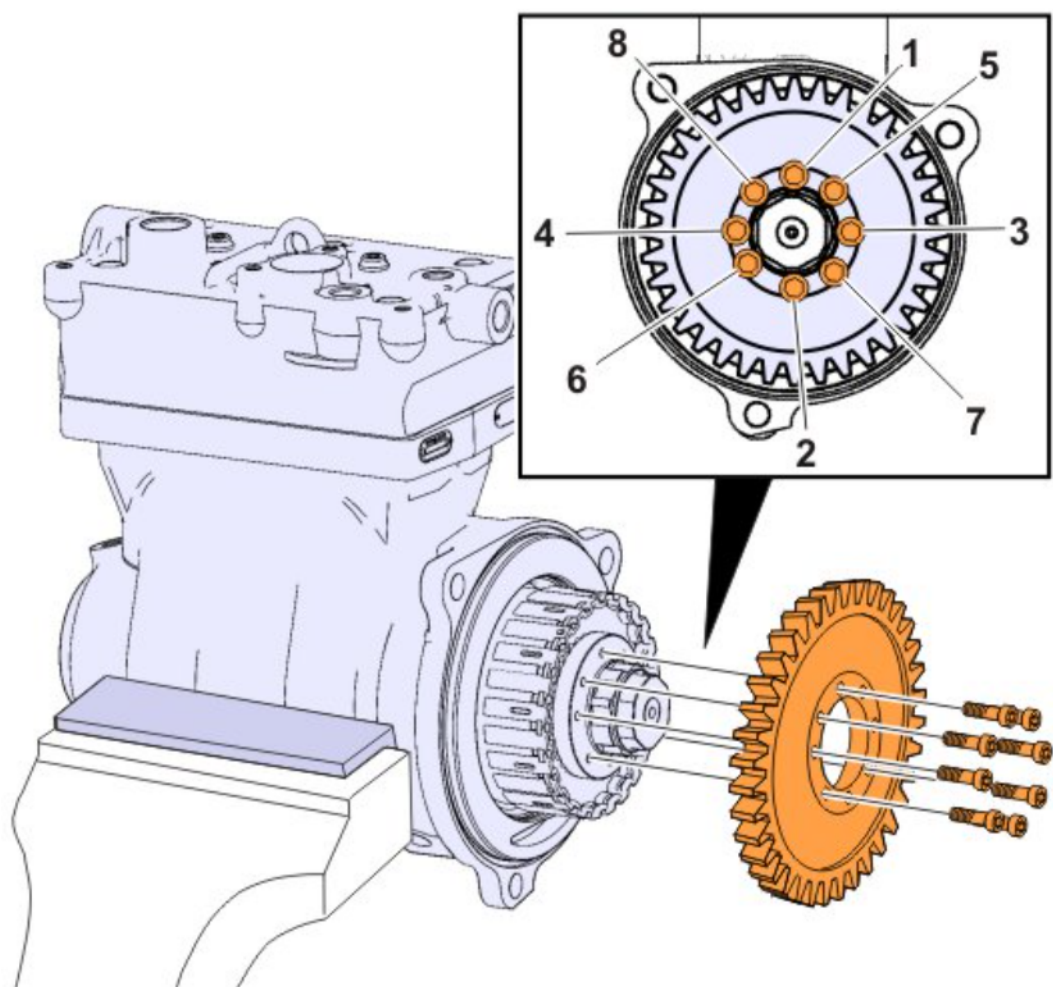
18. Remove the fasteners securing the counter hold tool.
19. Remove the counter hold tool.



20. Clean and inspect the drive gear before installation.

Note: Replace the drive gear if necessary.

21. Clean the clutch contact surfaces.
22. Position the drive gear on the clutch assembly, apply medium locking fluid (Blue in Color) to the fasteners, and install the fasteners.
23. Tighten the fasteners in sequence to 12 ± 2 Nm (9 ± 1 lb-ft). See the figure below for torque sequence.



Reimbursement

This repair may be eligible for reimbursement if a product failure was experienced within time and mileage limits of the applicable Warranty coverage. Reimbursement is obtained via the normal claim handling process.	UCHP Reimbursement
Claim Type (used only when uploading from the Dealer Bus. Sys.)	W
Labor Code	
Labor Code (Compressor Clutch, Replacement)	5613-03-09-01 0.4 hrs.
Causal Part	22017920

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