

Turbo Compound Replacement

Service Category Service Department

Section Function Group 292

Technician Skill Level A

Market North America

Applicability

Volvo

Model Years	Models
2025	VN

Introduction

Volvo Trucks has determined that certain VN model trucks equipped with a D13 Turbo Compound (TC) engine may experience TC unit failure due to an under-torqued idler gear bracket. TC units within this population are suspected to be affected, which could result in failure and potential engine damage. For the affected vehicle population, please follow the instructions provided below to replace the TC unit with a new unit.

Production Change Information

This bulletin applies to vehicles built within the specified production changes below.

Brand	Engine	Emission Level	Starting Build Date	Ending Build Date
Volvo	D13 TC	EM-USA21	17-May-2024	22-November-2024

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	
Main Labor Code	Description	Hours
2921-03-02-01	Turbo Compound, Replacement	6.3
Causal Part	23174611	
SCC Authorization Code	S4349	
Expiration Date	January 31, 2026	

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Parts Information

If parts kit **24369695** and **85152135** are not available, the parts can be ordered individually. Please see the kit breakdown chart at the end of this document.

TC units must be ordered through VOR process. Only order ONE TC unit per vehicle VIN.

Part Numbers	Part Names	Quantity
23174611	TC Unit	1
24369695 See kit breakdown on last page	Install kit (EGR cooler)	1
85152135 See kit breakdown on last page	Install kit (turbo)	1
947282	Gasket	2
21060426	V-clamp	1
21095721	Gasket	1
21472836	V-clamp	1
21895636	Gasket	1
21940610	Sealing ring	1
22206133	Plane gasket	1
1547252	Sealing ring	1

Calibration Information

N/A

Repair Procedure

1. Secure the vehicle for service.
2. Replace the TC unit with a new one following operation (**2921-03-02-01 Turbo compound, Replacement**) in Impact.
3. After repair is complete return the truck to service.

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If parts kit **24369695** and **85152135** are not available, the parts can be ordered individually. Please see the kit breakdown (chart below).

24369695	Install kit (EGR cooler)	1
Kit contents	Part Names	Quantity
11994	Gasket	1
1547253	Sealing ring	2
20504408	Clamp	3
21693026	Clamp	1
21844960	Sealing ring	2
21944175	Gasket	1
23491449	Gasket	1
960629	Plug	1
967343	Sealing ring	1

85152135	Install kit (turbo)	1
Kit contents	Part Names	Quantity
25073472	Spacer sleeve	4
20592787	Clamp	1
20707685	Gasket	1
21827328	Clamp	1
21827334	Clamp	1
21940610	Sealing ring	1

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21940615	Sealing ring	1
21965006	Gasket	1
22206133	Gasket	1
984737	Flange screw	4
993811	Flange screw	4