

REFERENCE:	Nova Bus Manuals
SECTION:	10: Transmission and Control
RS N°:	MQR 7621-2486
EFFECTIVE IN PROD.:	N/A

APPLICATION DEADLINE: 2024OC04
CLAIM REFERENCE NUMBER: WB-5314

SUBJECT:	P-Clamp failure on Transmission cooling pipes.
JUSTIFICATION:	P-Clamp cannot withstand the load of the cooling pipes. Thicker P-clamp as a containment solution.

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Replacement of new P-clamp on Transmission cooling pipes	Novabus	Novabus	0.67 h
2	–	–	–	–

MATERIAL REQUIRED PER VEHICLE

QTY	PART N°	REV.	DESCRIPTION
LEVEL 1			
2	N84090-14	–	P-CLAMP ID 2.250"THK 0.060"M8
LEVEL 2			
–	–	–	–
LEVEL 1 SHOP SUPPLIES			
–	–	–	–

Materials will be available within 61 days once your order has been placed.

To order, please contact novabus.parts@volvo.com

Or by phone for CANADA 1-800-771-6682, for USA 1-877-999-8808

Specify document number, quantity of parts required and shipping address.

DISPOSAL OF PARTS

REMOVED PARTS ARE:	DISCARDED*	RETAINED	* Dispose of the unused parts and the defective parts in accordance with local environmental standards in effect.
	Yes	–	

REVISION HISTORY

REV.	DATE	CHANGE DESCRIPTION	WRITTEN BY
NR	2022OC21	Initial release	Devanand
R1	2023JL12	All of order LD82 added	Devanand

APPROVED BY:

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Symbol	Meaning
Empty Field	No changes, the procedure applies
+	Contract added, the procedure applies
-	Contract removed, the procedure does not apply

SYM	CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
			FROM	TO	FROM	TO	
	Maryland Transit Authority - MTA	LD82	21001	21002	L82J2M9777921	L82J1M9777960	2
+	Maryland Transit Authority - MTA	LD82	21003	21003	L82J3M9777961	L82J3M9777961	1
	Maryland Transit Authority - MTA	LD82	21004	21009	L82J5M9777962	L82J2M9777983	6
+	Maryland Transit Authority - MTA	LD82	21010	21010	L82J4M9777984	L82J4M9777984	1
	Maryland Transit Authority - MTA	LD82	21011	21013	L82J6M9777985	L82JXM9777987	3
	Maryland Transit Authority - MTA	LD82	21014	21014	L82J6M9777999	L82J6M9777999	1
	Maryland Transit Authority - MTA	LD82	21015	21015	L82J7M9778000	L82J7M9778000	1
	Maryland Transit Authority - MTA	LD82	21016	21016	L82J9M9778001	L82J9M9778001	1
+	Maryland Transit Authority - MTA	LD82	21017	21017	L82J0M9778002	L82J0M9778002	1
	Maryland Transit Authority - MTA	LD82	21018	21018	L82J2M9778003	L82J2M9778003	1
+	Maryland Transit Authority - MTA	LD82	21019	21020	L82J4M9778004	L82J0M9778016	2
	Maryland Transit Authority - MTA	LD82	21021	21021	L82J2M9778017	L82J2M9778017	1
+	Maryland Transit Authority - MTA	LD82	21022	21023	L82J4M9778018	L82J6M9778019	2
+	Maryland Transit Authority - MTA	LD82	21024	21024	L82J2M9778020	L82J2M9778020	1
	Maryland Transit Authority - MTA	LD82	21025	21025	L82J4M9778021	L82J4M9778021	1
+	Maryland Transit Authority - MTA	LD82	21026	21028	L82J0M9778033	L82J4M9778035	3
	Maryland Transit Authority - MTA	LD82	21029	21029	L82J6M9778036	L82J6M9778036	1
	Maryland Transit Authority - MTA	LD82	21030	21030	L82J8M9778037	L82J8M9778037	1
	Maryland Transit Authority - MTA	LD82	21031	21031	L82JXM9778038	L82JXM9778038	1
+	Maryland Transit Authority - MTA	LD82	21032	21033	L82J7M9778045	L82J9M9778046	2
	Maryland Transit Authority - MTA	LD82	21034	21034	L82J0M9778047	L82J0M9778047	1
+	Maryland Transit Authority - MTA	LD82	21035	21035	L82J2M9778048	L82J2M9778048	1
	Maryland Transit Authority - MTA	LD82	21036	21036	L82J4M9778049	L82J4M9778049	1
	Maryland Transit Authority - MTA	LD82	21037	21037	L82J0M9778050	L82J0M9778050	1
+	Maryland Transit Authority - MTA	LD82	21038	21038	L82J7M9778062	L82J7M9778062	1
+	Maryland Transit Authority - MTA	LD82	21039	21039	L82J9M9778063	L82J9M9778063	1
	Maryland Transit Authority - MTA	LD82	21040	21041	L82J0M9778064	L82J2M9778065	2
+	Maryland Transit Authority - MTA	LD82	21042	21042	L82J4M9778066	L82J4M9778066	1
	Maryland Transit Authority - MTA	LD82	21043	21044	L82J6M9778067	L82J8M9778068	2
+	Maryland Transit Authority - MTA	LD82	21045	21045	L82JXM9778069	L82JXM9778069	1
	Maryland Transit Authority - MTA	LD82	21046	21046	L82J2M9778079	L82J2M9778079	1
+	Maryland Transit Authority - MTA	LD82	21047	21048	L82J9M9778080	L82J0M9778081	2
	Maryland Transit Authority - MTA	LD82	21049	21049	L82J2M9778082	L82J2M9778082	1
+	Maryland Transit Authority - MTA	LD82	21050	21050	L82J4M9778083	L82J4M9778083	1
+	Maryland Transit Authority - MTA	LD82	21051	21051	L82J6M9778084	L82J6M9778084	1
	Maryland Transit Authority - MTA	LD82	21052	21070	L82J8M9778085	L82J9M9778127	19

TOOLS REQUIRED:

- 13mm socket wrench

**WARNING****FOLLOW YOUR INTERNAL SAFETY PROCEDURES.**

- 1.1. Park the vehicle on an even surface with the transmission on neutral.
- 1.2. Apply the parking brake and set the master control switch to the **stop** position.
- 1.3. Set the battery disconnect switch in the battery compartment to the **off** position
- 1.4. Open the transmission access panel.
- 1.5. Locate the upper and lower P-clamp on Transmission cooling pipes (see figure 1).

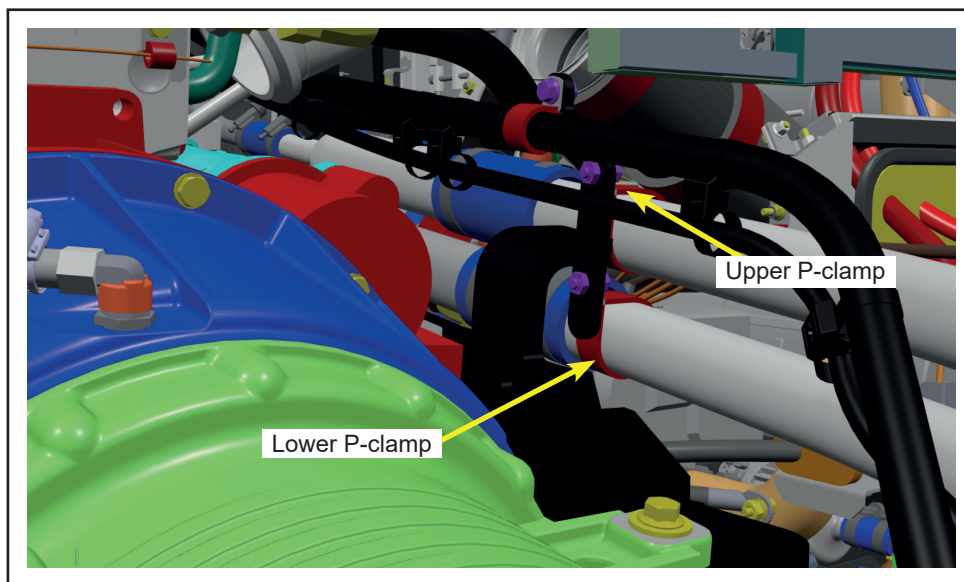


Figure 1 - Location of P-clamp

- 1.6. Remove the P-clamp using 13mm socket wrench.
- 1.7. Replace new P-clamp P/N N84090-14 on the cooling pipes and Torque to $23 \pm 2 \text{ N}\bullet\text{m}$.
- 1.8. Close the transmission access panel.
- 1.9. The vehicle can return in service.❖