NOVA BUS **SERVICE BULLETIN** **BS1920E**

REFERENCE:	Nova Bus Manuals
SECTION:	14 HVAC
RS Nº:	MQR 7621-361
EFFECTIVE IN PROD.:	–

APPLICATION DEADLINE:
2014JA08

SUBJECT:	Compressor plate fastening bolts and nuts
JUSTIFICATION:	Loosening compressor plate generates a compressor belt misalignment

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Change the fastening of the compressor plate	Nova Bus	Nova Bus	30 min
2	–	–	–	–

MATERIAL

QTY	PART Nº	REV.	DESCRIPTION	REPLACES PART N°
LEVEL 1				
4	N69378		M12 Nut	
3	N69539		Bolt M12x50	
1	N69540		Bolt M12x60	
8	N32932		Nord lock self-locking washer	
LEVEL 2				
–	–	–	–	–

Materials will be available within 42 days. To order, please contact Prevost Parts by phone at 1-800-771-6682, by fax at 1-888-668-2555 or by email at prevostparts.commandes@volvo.com. 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	2012OC30	Initial release	Wilder Galiano

APPROVED BY: Karine Allonce

Digitally signed by Karine Allonce
DN: cn=Karine Allonce, o=Novabus, ou, email=karine.allonce@volvo.com, c=CA
Date: 2012.11.27 09:08:52 -05'00'

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
New York City Transit - New York	L536	1200	1201	S92U793000490	S92U993000491	2
New York City Transit - New York	L545	1202	1289	S92U5A4000001	S92U0A4000098	88
New York City Transit - New York	L608	8000	8014	L82U6B4000047	L82U0B4000061	15
New York City Transit - New York	L620	8015	8074	L82U2B4000062	L82U7B4000123	60
New York City Transit - New York	L621	8075	8089	L82U9B4000124	L82U9B4000138	15
New York City Transit - New York	L643	5895	5895	S92U1B4000143	S92U1B4000143	1
New York City Transit - New York	L670	5770	5894	S92U9B4000147	S92UXC4500061	125
New York City Transit - New York	L681	5253	5986	S92U2C4500023	S92U6C45001140	71

WARNING

Follow your internal safety procedures.

PROCEDURE

1.1. Open the rear engine access door.
1.2. Open the belt guard.
1.3. Locate the compressor plate.

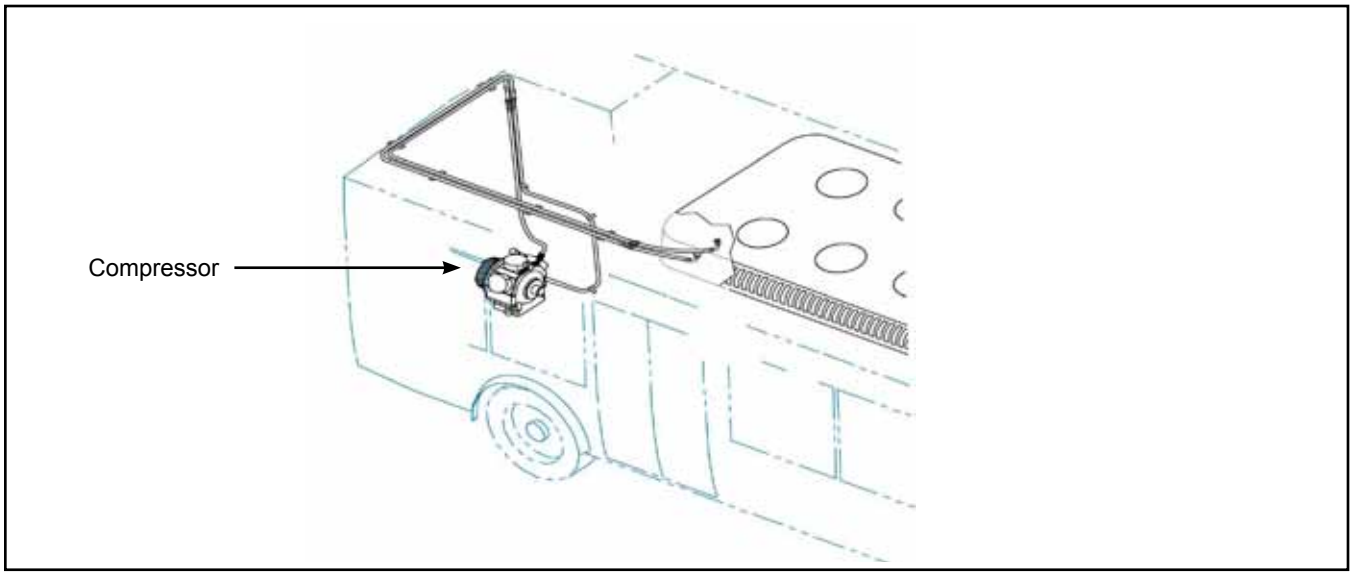

Figure 1 - Compressor Location

1.4. Remove the four retaining bolts and nuts that attach the AC compressor plate to the support base. See Figure 2.

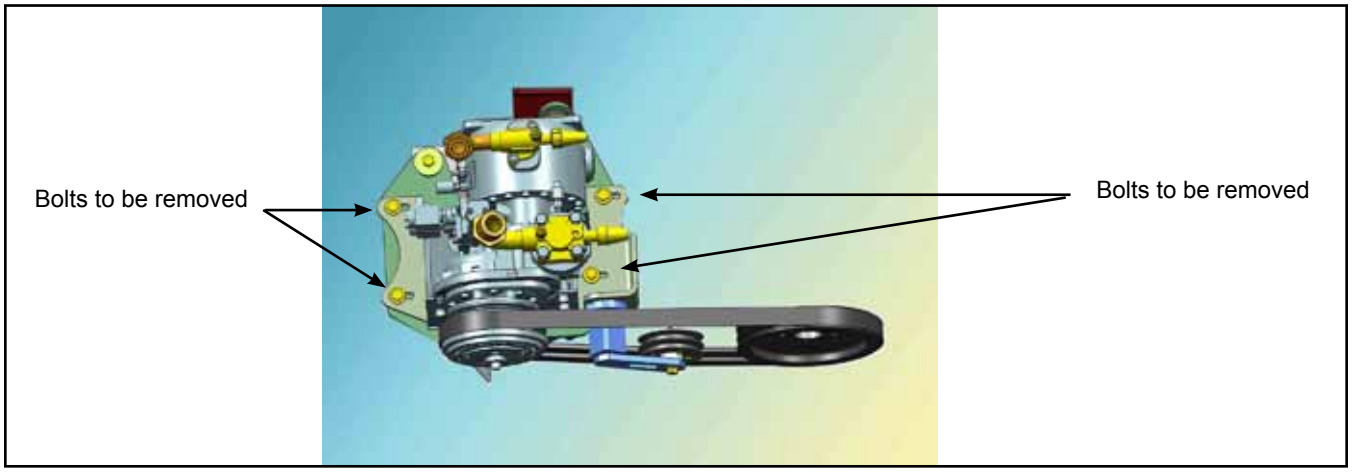

Figure 2 - Bolt Locations (Typical)

1.5. Install one N69540 bolt with Nord lock washers. See Figure 3 for the location.

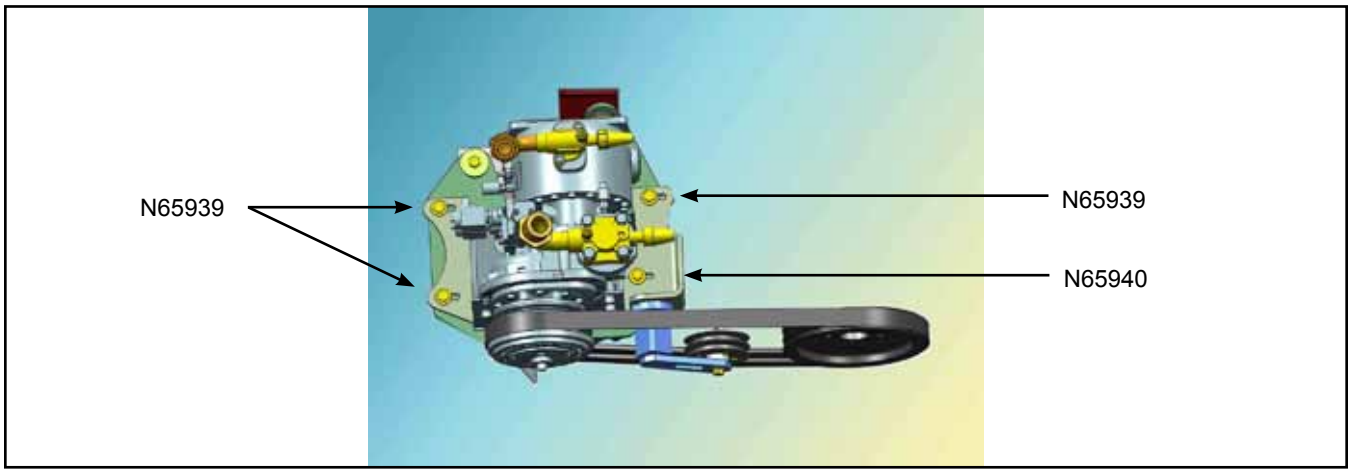

Figure 3 - Bolt Locations

1.6. Install three N69539 bolts with Nord lock washers for each bolt. See Figure3.

1.7. Install the four N69378 nuts with Nord lock washers for each nut.

COMPRESSOR BELT ALIGNMENT

1.8. Install the three compressor adjustment tools ,with the same part # NT0886, on the pins of the compressor plate. See Figure 4.

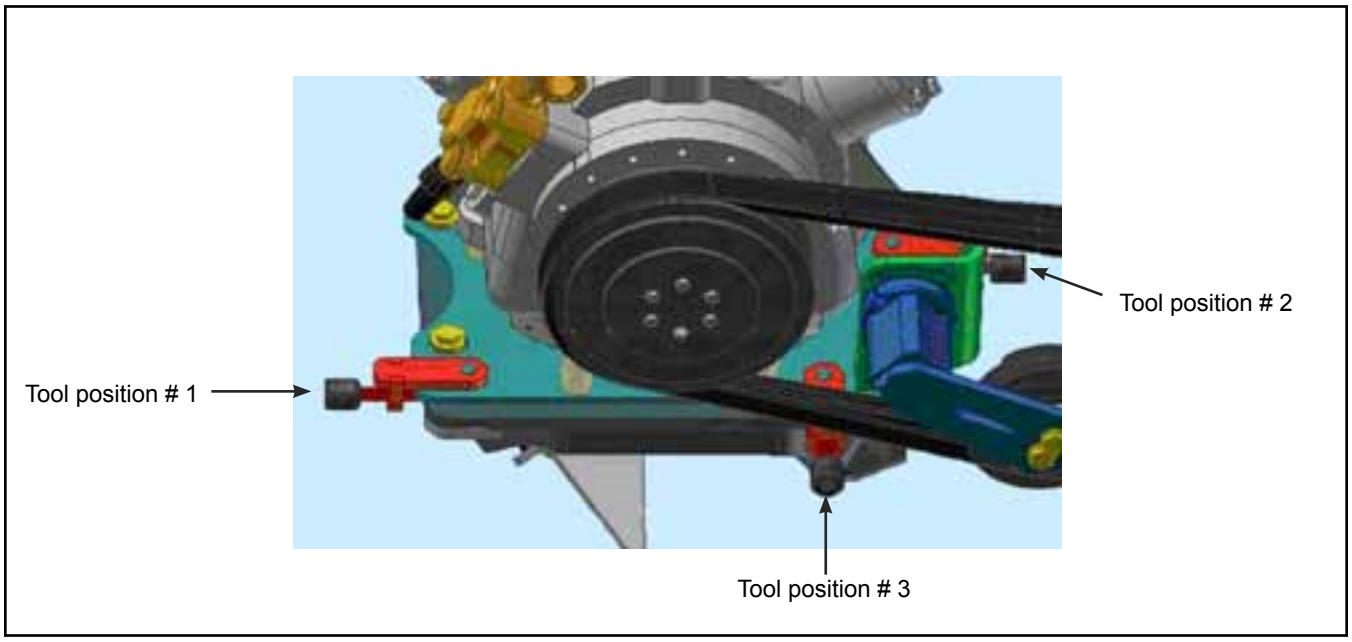

Figure 4 - Compressor Adjustment Tools Position

1.9. Place belt hog, or similar laser-based transmitters in the outside grooves of the engine and compressor pulley to obtain precise alignment. keep the device logos facing toward the rear of the vehicle. See Figure 5.

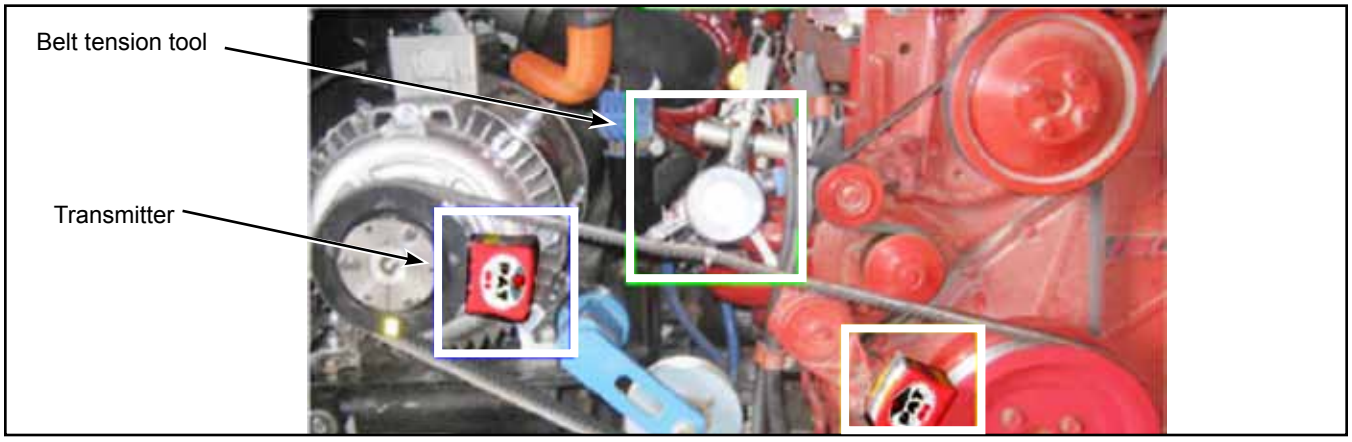

Figure 5 - Transmitters and Belt Tension Tool Installed

1.10. Press the **ON** button of the belt hog. The laser beams should appear on both graduated scales.

1.11. Align the compressor using the tools numbered one, two and three, installed on the compressor plate. See Figure 4.

1.12. Nudge the compressor toward the front or rear with tool at position No 3 on the vehicle, until the beam strikes the center of both graduated scales. See Figure 6.

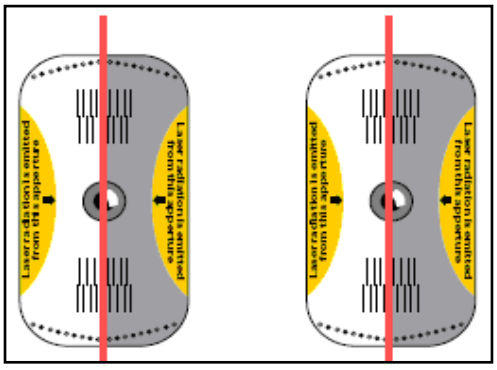

Figure 6 - Laser Positioning

1.13. Gradually apply tension on the belt until 150 ± 5 lb.using tool at position #1 and balance, if necessary, the alignment of the laser with tool at position # 2. See Figure 6.

1.14. Adjust the laser beam if necessary with tool at position # 3.

1.15. Tighten the compressor plate nuts to the specified torque in the sequence (A to D) described in Figure 7.

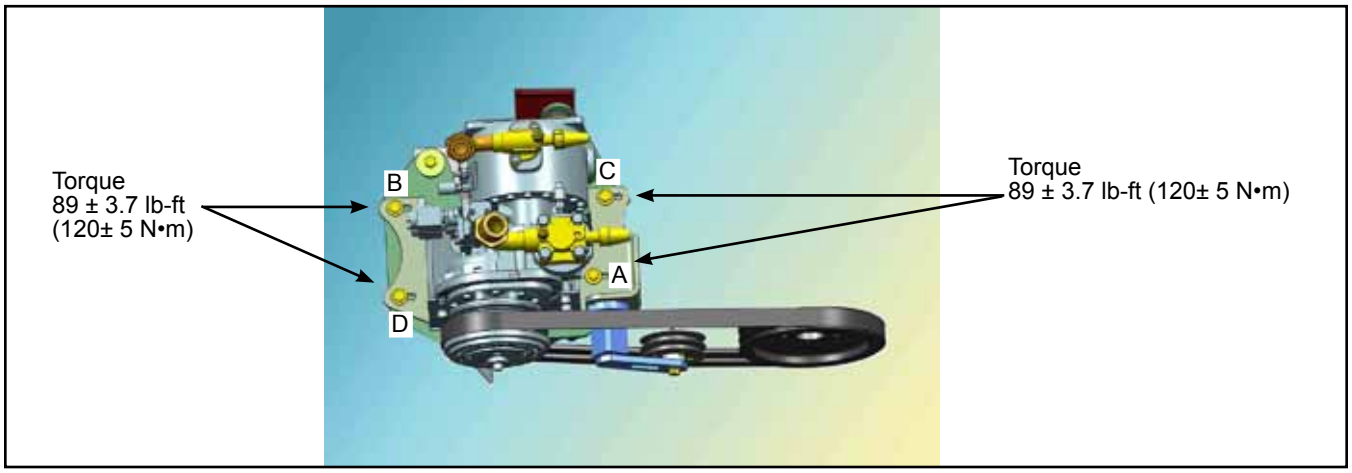

Figure 7 - A/C Compressor Plate Retaining Bolts Torque and Sequence

1.16. Validate if the laser beams are still aligned and the tension of the belt is within the tolerance range. If further adjustment is required, repeat the adjustment procedure.

1.17. Remove the adjustment tools from the compressor plate.

1.18. Close the belt guard and the engine door.

1.19. Perform a road test with the vehicle.

1.20. Open the engine door and the belt guard.

1.21. Validate that the tension of the belt remains at 150 ± 5 lb. If the belt tension does not respect the tolerance, repeat the adjustment procedure.

1.22. Close the belt guard and the rear engine access door.

1.23. The vehicle can be returned to service.❖