

REFERENCE:	Nova Bus Manuals
SECTION:	10 Transmission and control
RS N°:	MQR 7621-315
EFFECTIVE IN PROD.:	L702 (2012MA)

APPLICATION DEADLINE: 2014MA01

SUBJECT:	Ecolife transmission - Wiring harness for recording of turbine speed and output speed. ZF BULLETIN NO. 12_07.
JUSTIFICATION:	Due to wear at the plug connections of the wiring harnesses, sporadic contact discrepancies and entries in the error memory may occur.

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	In case of error code entries, replace the harnesses.	Nova Bus	Nova Bus	3.5 h
2	-	-	-	-

MATERIAL

QTY	PART N°	REV.	DESCRIPTION	REPLACES PART N°
LEVEL 1				
1	N8900629	-	Wiring harness internal, turbine speed (N_T)	-
1	N8900630	-	Wiring harness, output speed (N_Ab)	-
LEVEL 2				
-	-	-	-	-

Materials will be available within 14 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	2013MR13	Initial release	Danielle Lacroix

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
Airdrie Transit - Alberta	L664	—	—	L82U2B3000507	L82U2B3000507	1
Belleville Transit - Ontario	L598	—	—	L82U5A3000581	L82U7A3000582	2
Belleville Transit - Ontario	L655	—	—	L82U3B3000385	L82U3B3000385	1
Calgary Transit - Alberta	L601	8101	8114	L82U5A4000099	L82U4A4000112	14
Calgary Transit - Alberta	L607	8115	8130	L82UXA3000477	L82U6A3000492	16
Calgary Transit - Alberta	L615	8131	8158	L82U1B4000019	L82U4B4000046	28
Calgary Transit - Alberta	L624	—	—	L82U4B4000077	L82U6B4000078	2
Calgary Transit - Alberta	L637	8161	8180	L82U7B3000356	L82U2B3000376	20
Clemson Area Transit - South Carolina	L617	—	—	S92U5C4500002	S92U5C4500002	1
Fredericton - New Brunswick	L672	—	—	L82U0B3000540	L82U2B3000541	2
Fredericton - New Brunswick	L688	8113	8113	L82U8C3000643	L82U8C3000643	1
Grand River Transit - GRT - Ontario	L633	21101	21115	L82U7B3000289	L82U8B3000303	15
Grand River Transit - GRT - Ontario	L668	21201	21202	L82U6C3000737	L82U8C3000738	2
Halifax - Nova Scotia	L558	717	731	S92UXA3000293	S92U6A3000307	15
Halifax - Nova Scotia	L613	732	741	S92UXB3000019	S92UXB3000028	10
Halifax - Nova Scotia	L693	526	534	L82U8C3000657	L82U7C3000665	9
Kings Transit - Kentville, Nova Scotia	L581	—	—	L82U2B3000054	L82U2B3000054	1
Marketing Sales Demo - MSD 2	L616	—	—	L82U4C4500001	L82U4C4500001	1
Marketing Sales Demo - MSD 4	L618	—	—	S92U1C3000377	S92U1C3000377	1
Marketing Sales Demo - MSD 6 Houston	L628	—	—	L82U8C4500003	L82UXC4500004	2
Niagara Falls - Ontario	L652	—	—	S92U3C3000607	S92U6C3000617	11
Niagara Falls - Ontario	L653	—	—	L82U9C3000618	L82U9C3000621	5
Saskatoon - Saskatchewan	L690	1201	1204	L82U6C3000690	L82U1C3000693	4
Timmins - Ontario	L661	—	—	L82U9B3000486	L82U9B3000486	1
University of Alabama - Alabama	L640	—	—	L82U9B4000141	L82UOB4000142	2
University of Colorado - Colorado	L627	—	—	S92UXB4000139	S92U6B4000140	2

**WARNING**

Follow your internal safety procedures.

PROCEDURE**NOTE**

The following procedure is provided by ZF. Nova Bus cannot be held responsible for its content.





SERVICE INFORMATION

No.12_07

Date:30-05-2012

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ECOLIFE

Product, Transmission, Auxiliary Unit

4181

Model

Wiring harness

Assembly group

ALL

ZF Services OEM/Customer

Wiring Harness for Speed Recording of Turbine Speed (N_T) and Output Speed (N_Ab)

In the course of the technological further development, the plug connections of the wiring harnesses mentioned below were improved. New wiring harnesses were introduced by changes of the parts lists in the volume production for that.

Due to wear at the plug connections of the wiring harnesses, sporadic contact discrepancies and also entries in the error memory may occur.

Note:

Entries in the error memory do not indicate defective speed sensors. The speed sensors must be exchanged during a repair only in case of mechanic or thermal damage or if visibly strong wear marks exist.

Possible error entries:

Error no.	Description of error
53 – 55	Turbine (N_T) speed sensor error
56 – 58	Output speed (N_Out) sensor error
99	Too much positive engagement in neutral ready
100	Slip on locked WK [torque converter lock-up clutch]
163	Failure turbine speed (N_T) and output speed (N_Ab)
164	Failure turbine speed (N_T) and engine speed (N_Mot)
188	Slip in fixed gear
232	Failure output speed (N_Ab), turbine speed (N_T), and engine speed (N_Mot)

Author: D.Bentele

i.A. Neufischer

Approved: i.V. Schenk

Checked: i.V. Thollot

Dept. TTCT

+49 7541 - 77 3767

Fax +49 7541 - 77 90 3767

Email: dieter.bentele@zf.com

Customer Service / After Sales Technical Service for Truck and Bus Driveline Technology

Delivery Address: **ZF Friedrichshafen AG, Zeppelin-Werftgelände 70, 88045 Friedrichshafen, Germany**

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Components concerned:**Nova Bus note:**

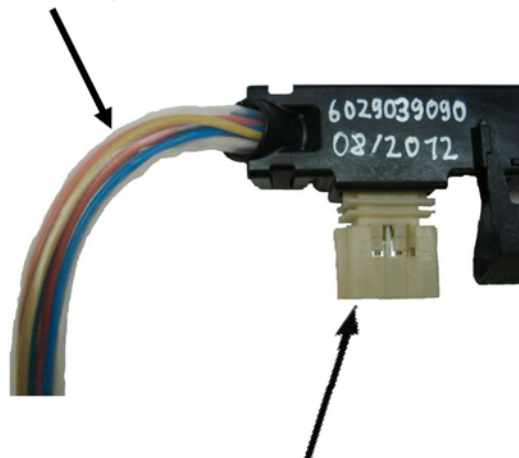
Order the part numbers as indicated in the Material section on page 1.

In case of error, the wiring harnesses must be exchanged according to the following table:

Designation	NEW	OLD
	Material number	Material number
Wiring harness internal, turbine speed (N_T)	6029.039.090	6029.039.048
Wiring harness internal, turbine speed (N_T) with oil level sensor	6029.039.106	6029.039.061
Wiring harness, output speed (N_AB)	6029.039.091	6029.039.049

Note:

The new wiring harnesses are clearly visible due to different individual lines in terms of color.



Due to improved plug connections, higher forces for plugging the wiring harnesses in are necessary!

Assembly note:

The wiring harness of the output speed (N_Ab) can be exchanged with small work efforts. If the oil pan is removed, an "insertion aid" (wire or something similar) is mounted to the wiring harness to be exchanged; with the help of this "insertion aid", the new wiring harness can then be inserted.

Important:

The transmission has not to be removed for the exchange of the wiring harness of the output speed (N_Ab).

During the retrofit in the vehicle, the plug connector locking mechanisms can break off, in this case, the wiring harness must be replaced. (do not necessarily exchange!!!!)



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Parts lists concerned: all ECOLIFE parts lists (model number 4181)

Use of old parts: Scrap remaining parts

Transmissions on stock: must be modified

Change/Launch data:

	as of product number / date for model number	Change number to parts list [BoM]
modular parts list	4181	Date
4181.000.000	322842 2012-04-11	Z000164344 2012-03-22

Since 2012-04-11, the new wiring harnesses with improved plug connections have been installed in volume production and therefore, are now available.

Remuneration:

For the efforts invested, remuneration for 3.5 hour working time can be obtained via the standard warranty claim (WC) filing process.

Damage coding:

Damaged part		Damage *)		
Designation	Material number	Place	Type	Cause
Wiring Harness	6029 039 048 6029 039 049 6029 039 061	072 (electrical connection)	173 (loose contact)	048 (Design change)

*) = in accordance with the Damage coding catalog no. 1200 754 001 (German), no. 1200 754 101 (English), 2008 edition

Validity:

This Service Information is valid for an unlimited period from 2012-04-11.