

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 with oil level sensor - 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	N8900631	—	Wiring harness internal, turbine speed (N_T) with oil level sensor	—
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	
Brantford - Ontario	L663	—	—	L82U1B3000532	L82U1B3000532	1
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	5771	5894	S92U9B4000147	S92U8C4500060	124
New York City Transit - New York	L670	5770	5770	S92UXC4500061	S92UXC4500061	1
New York City Transit - New York	L681	5896	5933	S92U2C4500023	S92U04500098	38
New York City Transit - New York	L681	5938	5938	S92U0C4500103	S92U0C4500103	1

**WARNING**

Follow your internal safety procedures.

PROCEDURE

**NOTE**

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





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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)

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Components concerned:**Nova Bus note:**

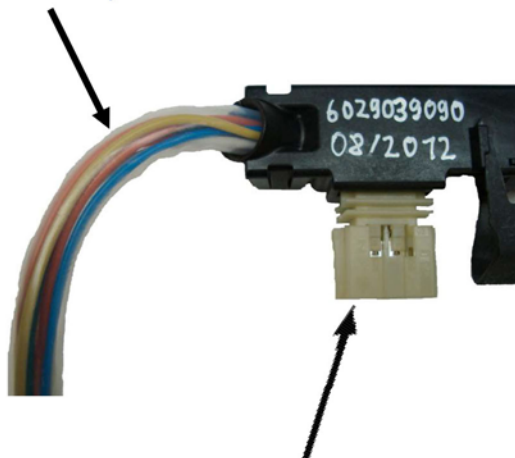
Order the part numbers as indicated in the Material section on page 1.

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.