

REFERENCE:	Nova Bus Manuals
SECTION:	10: Transmission and control
RS N°:	N/A
EFFECTIVE IN PROD.:	N/A

APPLICATION DEADLINE:N/A

SUBJECT:	Diagnostic software for ZF EcoLife transmission
JUSTIFICATION:	How to be sure to use the latest version of the Testman software.

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Follow the ZF recommendations.	Client	Client	—
2	—	—	—	—

MATERIAL

QTY	PART N°	REV.	DESCRIPTION	REPLACES PART N°
LEVEL 1				
—	—	—	—	—
LEVEL 2				
—	—	—	—	—

DISPOSAL OF PARTS

REMOVED PARTS ARE:	DISCARDED	RETAINED	
	—	—	

REVISION HISTORY

REV.	DATE	CHANGE DESCRIPTION	WRITTEN BY
NR	2016MA12	Initial release	Bertrand Plouffe

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
Airdrie Transit - Alberta	L664	—	—	L82U2B3000507	L82U2B3000507	1
Airdrie Transit - Alberta	L759	—	—	L82U0D3000928	L82U0D3000928	1
Autobus Brunet Québec	L705	—	—	L82U1D3000906	L82U1D3000906	1
BC Transit - BCT - British Columbia	L736	9441	9446	L82U8D3000854	L82U7D3000859	6
Belleville Transit - Ontario	L598	—	—	L82U5A3000581	L82U7A3000582	2
Belleville Transit - Ontario	L655	—	—	L82U3B3000385	L82U3B3000385	1
Belleville Transit - Ontario	L702	—	—	L82U4D3000706	L82U4D3000706	1
Bow Valley Transit - Alberta	L712	5	6	L82U6C3000804	L82U8C3000805	2
Brantford - Ontario	L663	10121	10121	L82U1B3000532	L82U1B3000532	1
Brantford - Ontario	L718	10123	10125	L82U5C3000826	L82U9C3000828	3
Brantford - Ontario	L775	10131	10132	L82U1D3000999	L82U2D3001000	2
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
Calgary Transit - Alberta	L709	8181	8200	L82UXC3000806	L82U3C3000825	20
Calgary Transit - Alberta	L733	8201	8202	L82AXD3000926	L82A1D3000927	2
Chicago Transit Authority - CTA - Illinois	L773	—	—	L82JXD4500429	L82J6D4500430	2
Chicago Transit Authority - CTA - Illinois	L811	7902	7949	L82J6E4500509	L82J6E4500526	48
Clemson Area Transit - South Carolina	L617	—	—	S92U5C4500002	S92U5C4500002	1
Clemson Area Transit - South Carolina	L769	—	—	S92U1D4500418	S92U1D4500418	1
Fredericton - New Brunswick	L672	8111	8112	L82U0B3000540	L82U2B3000541	2
Fredericton - New Brunswick	L688	8113	8113	L82U8C3000643	L82U8C3000643	1
Fredericton - New Brunswick	L774	8131	8131	L82U7D3000960	L82U7D3000960	1
Fredericton - New Brunswick	L812	—	—	L82J4E3001202	L82J4E3001202	1
Grand River Transit - GRT - Ontario	L633	21101	21115	L82U7B3000289	L82U8B3000303	15
Grand River Transit - GRT - Ontario	L668	21201	21220	L82U6C3000737	L82UXC3000756	20
Greater Toronto Airports Authority - GTAA - Ontario	L616	—	—	L82U4C4500001	L82U4C4500001	1
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
Halifax - Nova Scotia	L708	742	761	S92UXC3000782	S92U3C3000803	20
Halifax - Nova Scotia	L710	1160	1161	L82U7C3000780	L82U9C3000781	2
Houston - Texas	L737	1510	1510	S92U4D4500297	S92U4D4500297	1
Houston - Texas	L755	1511	1579	S92U4D4500333	S92U8D4500402	69
Kings Transit - Nova Scotia	L581	—	—	L82U2B3000054	L82U2B3000054	1
Marketing Sales Demo - MSD 6 Houston	L628	—	—	L82U8C4500003	L82UXC4500004	2
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	5896	5283	S92U2C4500023	S92U9C4500195	122

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
New York City Transit - New York	L692	5284	5363	S92U3C4500158	S92U3D4500274	80
Niagara Falls - Ontario	L652	—	—	S92U3C3000607	S92U6C3000617	11
Niagara Falls - Ontario	L653	—	—	L82U9C3000618	L82U9C3000621	5
Red Deer - Alberta	L726	—	—	L82UXC3000840	L82U1C3000841	2
Red Deer - Alberta	L766	1104	1105	L82U7D3001025	L82U9D3001026	2
Red Deer - Alberta	L772	1106	1108	L82J2E3001120	L82J6E3001122	3
Regina - Saskatchewan	L748	655	662	L82U3D3000874	L82U0D3000881	8
Regina - Saskatchewan	L776	663	669	L82U4D3001001	L82U5D3001007	7
Regina - Saskatchewan	L807	671	685	L82J8E3001137	L82J2E3001151	15
Saskatoon - Saskatchewan	L618	—	—	S92U1C3000377	S92U1C3000377	1
Saskatoon - Saskatchewan	L690	1201	1204	L82U6C3000690	L82U1C3000693	4
Timmins - Ontario	L661	—	—	L82U9B3000486	L82U9B3000486	1
Timmins - Ontario	L720	12-98	12-98	L82U0C3000829	L82U0C3000829	1
Timmins - Ontario	L783	—	—	L82U8D3001017	L82UXD3001018	2
University of Alabama - Alabama	L640	—	—	L82U9B4000141	L82UOB4000142	2
University of Alabama - Alabama	L671	7024	7025	L82U5C4500119	L82U1C4500120	2
University of Alabama - Alabama	L727	7026	7027	L82U4D4500310	L82U6D4500311	2
University of Alabama - Alabama	L787	—	—	L82J2E4500507	L82J4E4500508	2
University of Colorado - Colorado	L627	—	—	S92UXB4000139	S92U6B4000140	2
Whitehorse - Yukon	L784	43	43	L82U9D3001057	L82U9D3001057	1

**WARNING**

Follow your internal safety procedures.

PROCEDURE

- 1.1. Please follow the recommendations of the manufacturer ZF, to make sure you use the last updated version of Testman ❖

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EcoLife Product, Transmission, Auxiliary Unit All ZF Services	All Model All OEM/Customer	Testman Assembly group

Update of ZF-Testman With WebSync**Description:**

To guarantee that ZF-Testman is up to date, it must be run regularly with WebSync. Software updates ensure that improved/enhanced functions are incorporated into ZF-Testman and new software, already available in the transmission control units, is recognized.

Reasons why ZF-Testman is not up to date:

1. "WebSync" is not run by the user.
2. There is a so-called "offline version" of ZF-Testman, where the user has deliberately opted to not update the system. This means "WebSync" is not provided with these versions.

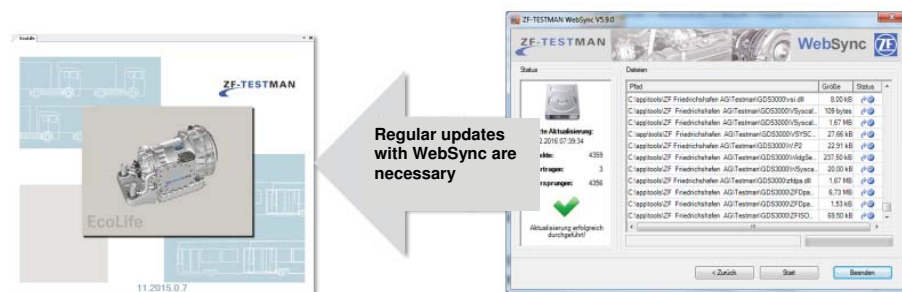


Fig. 1

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Communication setup procedure between ZF-Testman and the transmission control unit:

- During communication setup, the identification of the basic program version is checked first.

TCU-Softwareversion	20150330 15:13:13 EB1_2015_03_30_STEP03_AP22_2_D
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Fig 2

- If the status of the basic program version is unknown, the user is prompted to select a known status of the basic program version.

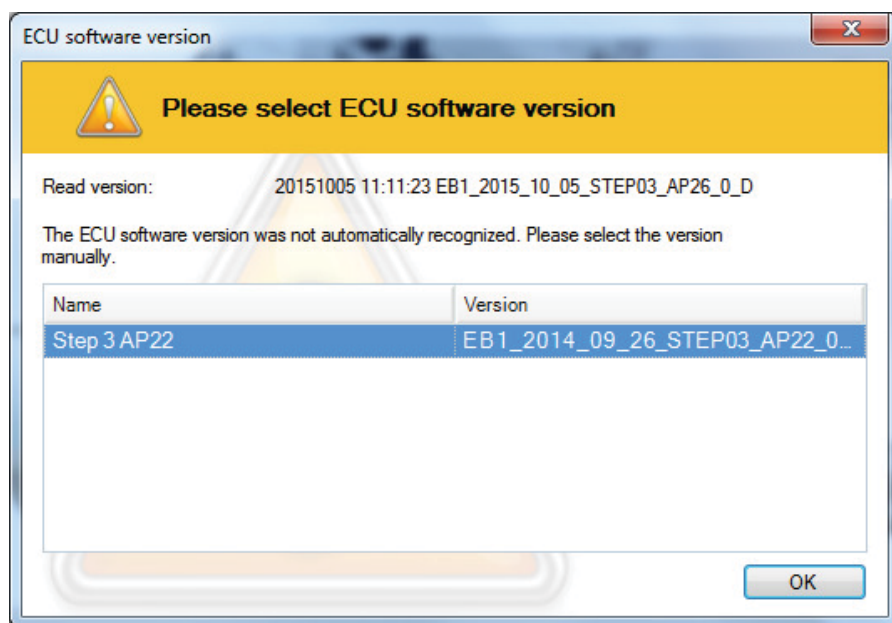


Fig. 3

- After manually selecting the status, the user sees a **permanent** message in several languages indicating that an **unknown software version was diagnosed**.

Attention

Unknown ECU software status, please install an update.

Fig. 4

The user is thus clearly and explicitly informed that he/she is using an **out-of-date version** of ZF-Testman.



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The user has the possibility of continuing to work with the out-of-date version of ZF-Testman.

By doing so, he/she will encounter the following restrictions:

- Operating data cannot be displayed in the statistics memory tool.
- The current values displayed in Monitoring may be incorrect.
- The measurement variable list for datalogger is not displayed and measurements are not possible.
- The error memory entries reserved for hybrid (error numbers **322** to **342**) are displayed with the correct error number but an incorrect error text.
- Only in this special case (an error with an error number between **322** and **342** is actually active) can the **customer or service employee be misdirected**.

Note:

In future versions of ZF-Testman, the error number will be displayed **without** an error description in cases where the **status of the basic program version is not known**. Additional information can be determined from the error number and the notes of the basic program version (Fig. 2).

All statuses of the basic program versions and applications that were delivered in volume production during acquisition of the offline ZF-Testman version have been fully diagnosed.

Validity:

This Service Information is valid as of 2016-05-01 for an unlimited period of time or until it is replaced by new Service Information.