

REFERENCE:	Nova Bus Manuals
SECTION:	09: Engine and cooling
RS N°:	MQR 7621-644
EFFECTIVE IN PROD.:	—

APPLICATION DEADLINE: 2016AL01
CLAIM REFERENCE NUMBER: WB-3359

SUBJECT:	Cummins ECM fault code 2448
JUSTIFICATION:	Cummins ISL10 engine does not have the configuration to support fault code 2448.

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Reprogram the ECM with modified Cummins calibration files.	Nova Bus	Nova Bus	30 min
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	2015MR26	Initial release	Bertrand Plouffe

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY	CALIBRATION FILE CODE
		FROM	TO	FROM	TO		
New York City Transit - New York	L608	8000	8014	L82U6B4000047	L82U0B4000061	15	CB90010.43
New York City Transit - New York	L620	8015	8074	L82U2B4000062	L82U7B4000123	60	CB90041.23
New York City Transit - New York	L621	8075	8089	L82U9B4000124	L82U9B4000138	15	CB90010.43
New York City Transit - New York	L643	5895	5895	S92U1B4000143	S92U1B4000143	1	CB90038.23
New York City Transit - New York	L670	5770	5894	S92U9B4000147	S92UXC4500061	125	CB90038.23
New York City Transit - New York	L681	5896	5283	S92U2C4500023	S92U9C4500195	122	CB90038.23
New York City Transit - New York	L692	5284	5363	S92U3C4500158	S92U3D4500274	80	CB90038.23

**WARNING**

Follow your internal safety procedures.

**NOTE**

To be able to do this procedure you will need:

- A portable Microsoft Windows-based Personal Computer (PC) with:
 - Microsoft Internet Explorer web browser
 - Cummins INSITE application software including the ECM Calibration Download Wizard (Please note that a Cummins user account might need to get access to the engine calibration downloads available on the Cummins website.)
- An Engine Control Module (ECM) download cable

Use the appropriate calibration file for your application. See the Client List on page 2.

PROCEDURE

- 1.1. Log on to <https://quickserve.cummins.com/info/index.html> to download the calibration file. See Figure 1.

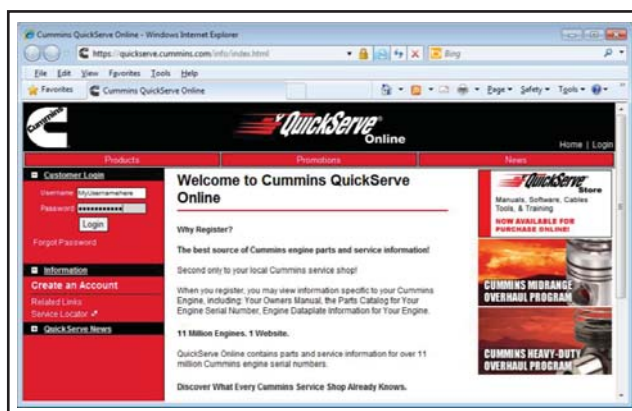


Figure 1 - Log on Screen

- 1.2. Click on the service tab, then click on Related Information Tab. See Figure 2.

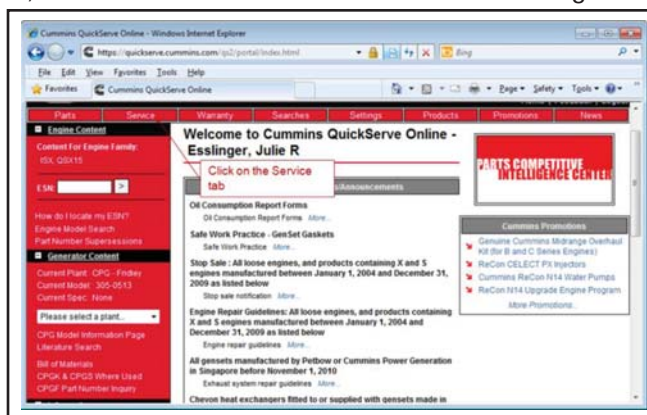


Figure 2 - Click on the Service Tab

- 1.3. After you click on related information tab, click on calibration download link. See Figure 3.

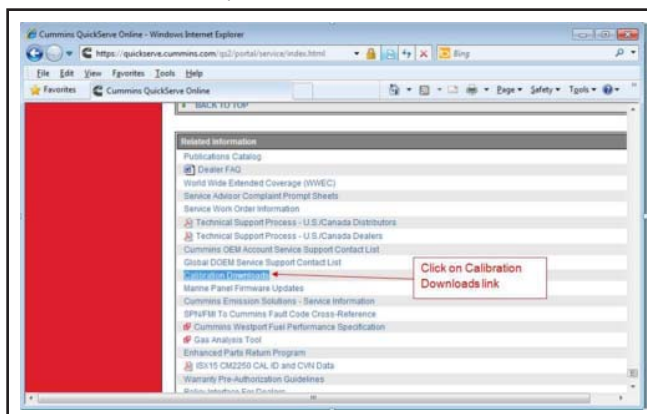


Figure 3 - Calibration Download Link

- 1.4. Enter the engine serial number and ECM code. See Figure 4.

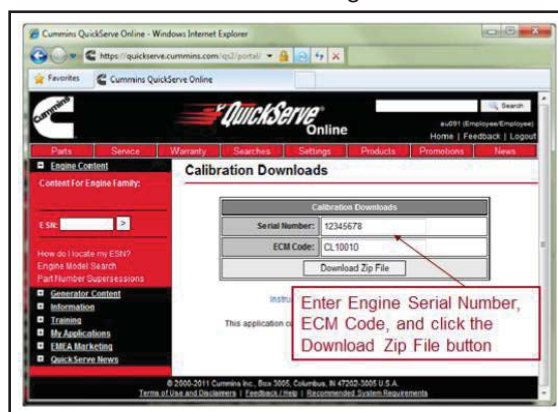


Figure 4 - Entering Engine Serial Number and ECM Code

- 1.5. After entering information, click on Download Zip File button. See Figure 5.



Figure 5 - Downloading the Zip File

- 1.6. Go into recent places to find the file called Intellect. Right click and choose Extract all. See Figure 6.

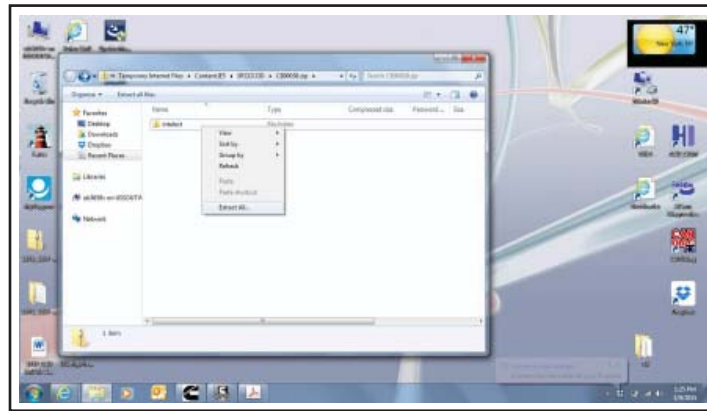


Figure 6 - Intellect File

- 1.7. Select file location window will pop up, click on Browse and select c:\Intellect\INSITE\calibrationworkspace. See Figure 7.

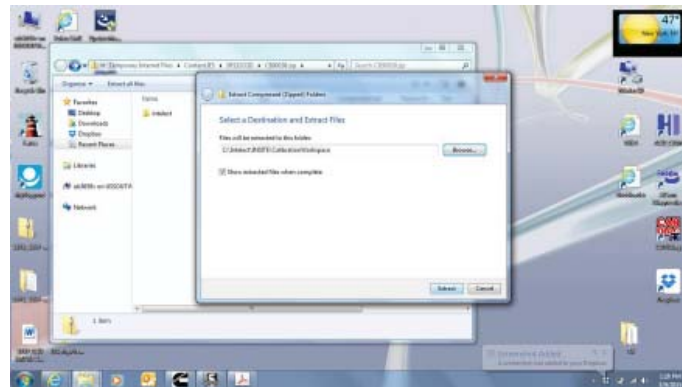


Figure 7 - Selecting a Destination File

- 1.8. Go into your drive. See Figure 8.

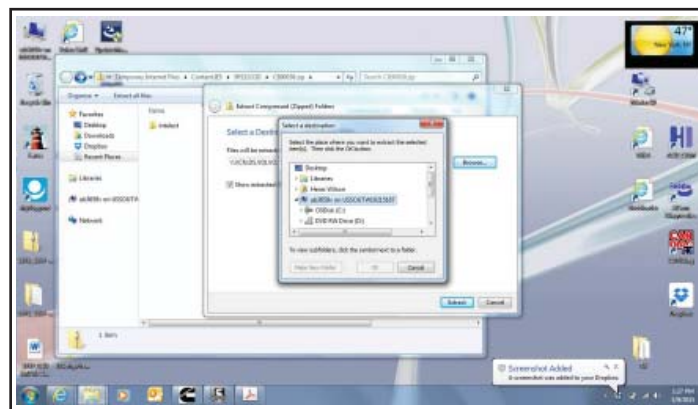


Figure 8 - Selecting your Drive

1.9. Click on C: drive. See Figure 9.

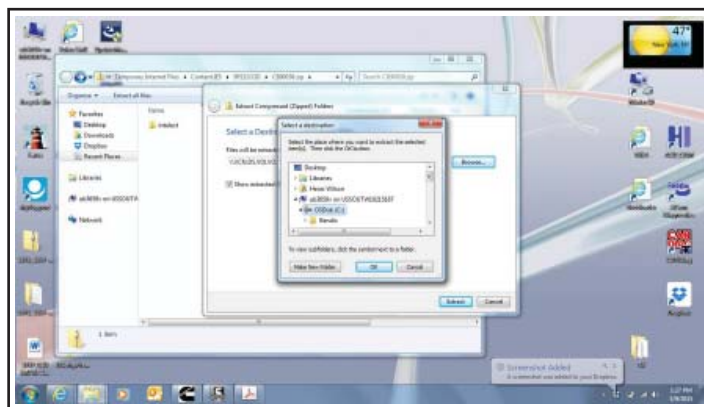


Figure 9 - Selecting C: Drive

1.10. Click on Intellect. See Figure 10.

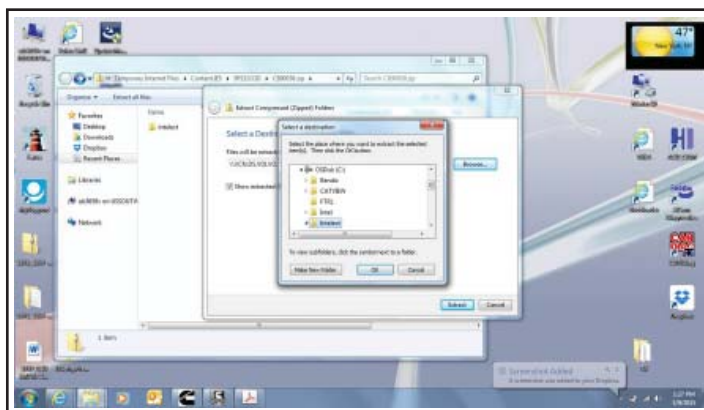


Figure 10 - Selecting Intellect

1.11. Click on INSITE. See Figure 11.

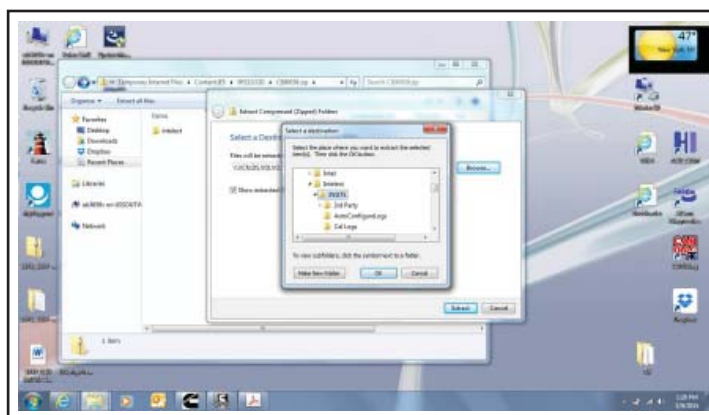


Figure 11 - Selecting INSITE

1.12. Click on calibration work space and saved file should be there. See Figure 12.

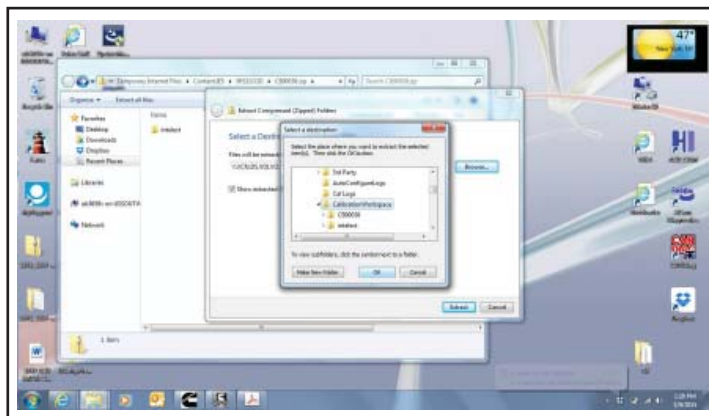


Figure 12 - Finding the Saved File

1.13. Go into Cummins INSITE. See Figure 13.



Figure 13 - Going to Cummins INSITE

1.14. Choose Calibration selection. See Figure 14.

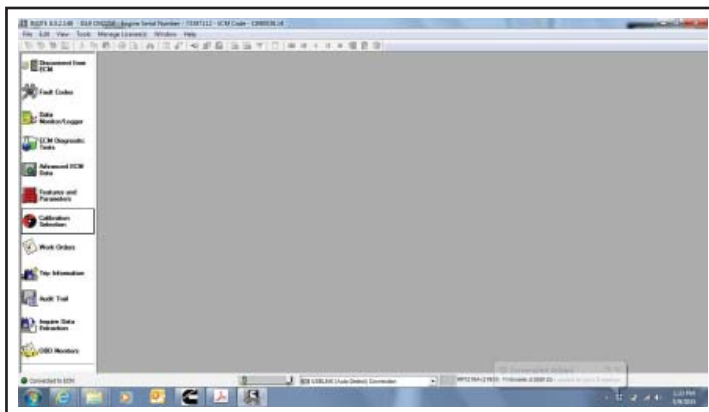


Figure 14 - Choosing Calibration Selection

1.15. Calibration software will be found in the extracted location as below. See Figure 15.

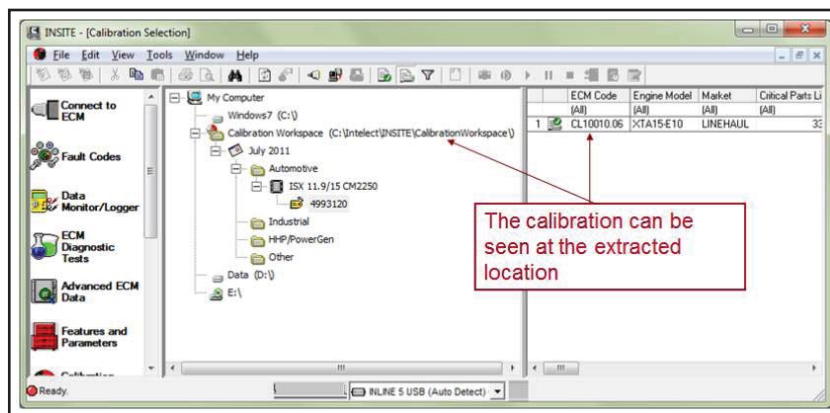


Figure 15 - Calibration File Location

1.16. Open Calibration selection Calibration work space – open the following: - April 2015; - Automotive; - ISL9 CM2250; - 4993120 Then select software CB90038 to the right and right click on it. See Figure 16.

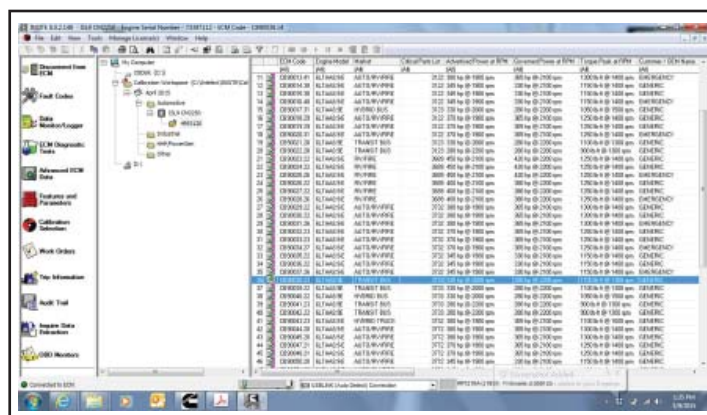


Figure 16 - Opening the Calibration Work Space

1.17. Select ECM. See Figure 17.

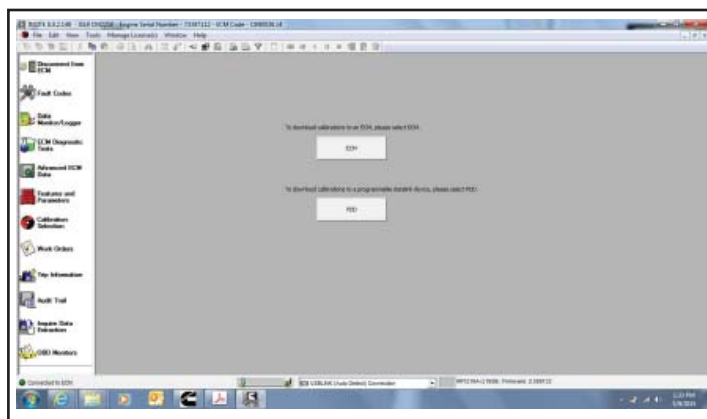


Figure 17 - Selecting ECM

1.18. Click next. See Figure 18.

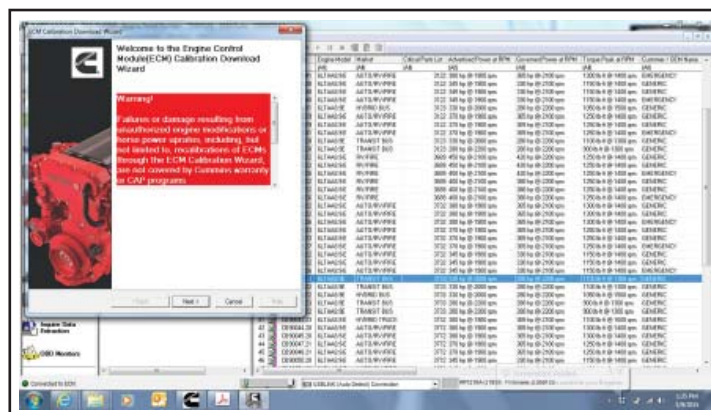


Figure 18 - Clicking on Next

1.19. Click next. See Figure 19.

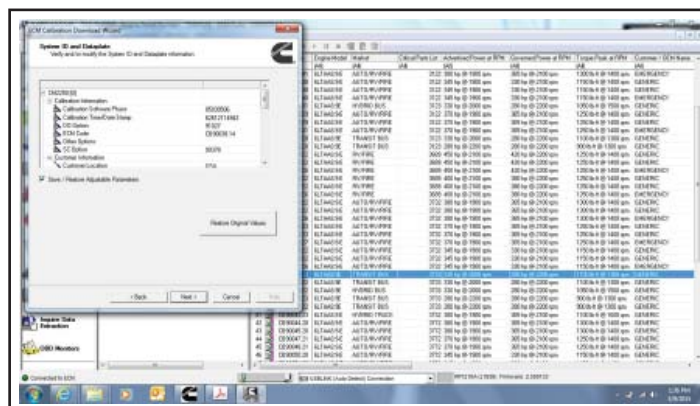


Figure 19 - Clicking on Next

1.20. Click next. See Figure 20.

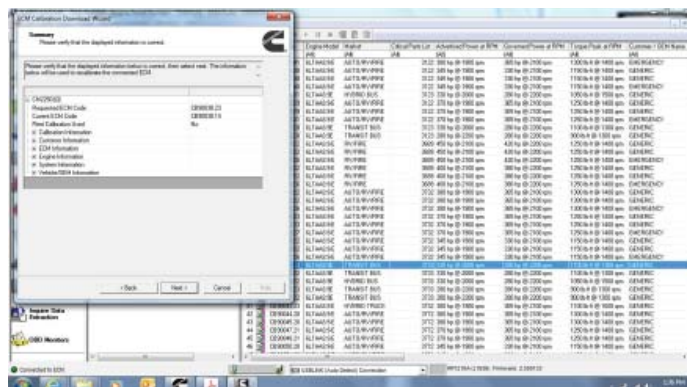


Figure 20 - Clicking on Next

- 1.21. Click ok to continue download. At this time, key switch should be on. It is important that there is no power interruption while calibrating. See Figure 21.

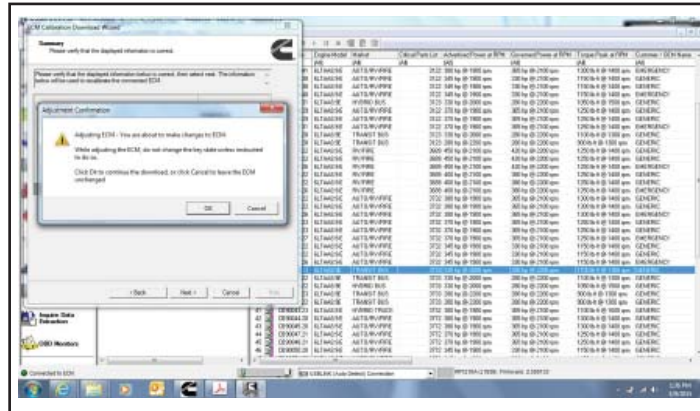


Figure 21 - Clicking OK to Continue Downloading

- 1.22. Calibration in progress and will indicate when ECM transfer is complete. Wait while transfer completes See Figure 22.

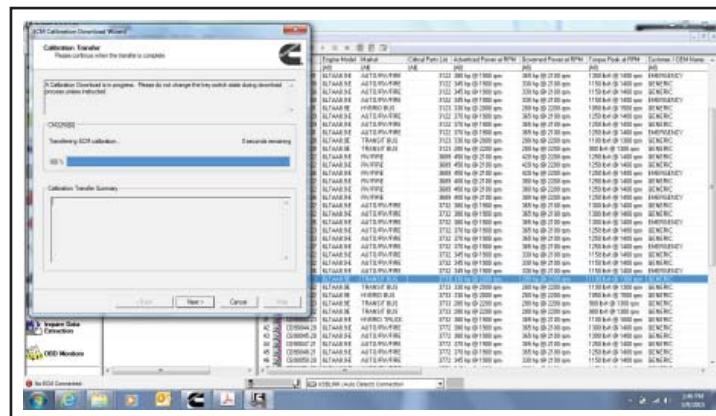


Figure 22 - Calibration Progress

- 1.23. After ECM calibration transfer is complete, a window will pop up indicating you to turn the key switch off then click ok. See Figure 23.

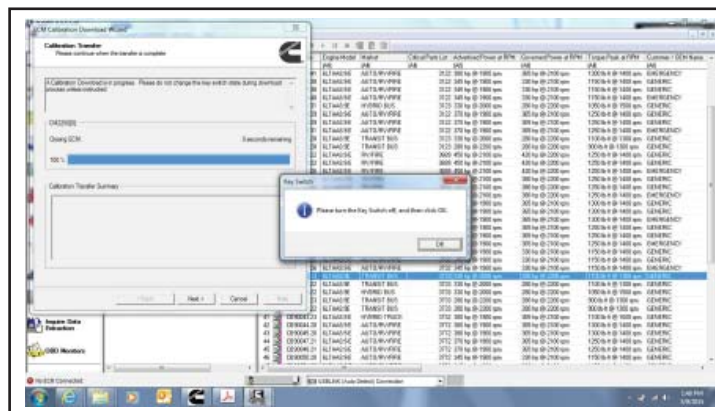


Figure 23 - Calibration Transfert Complete

1.24. After, another window will pop up indicating to turn switch key back on then click ok. See Figure 24.

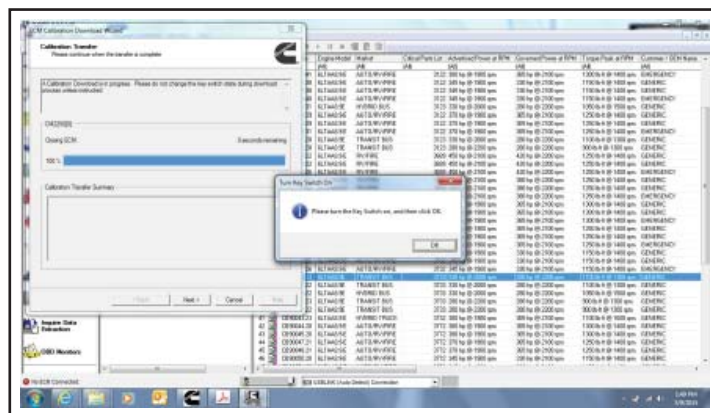


Figure 24 - Pop-up Instruction Window

1.25. After turning key switch back on, it will go through a check giving time for key switch to be turned on. See Figure 25.

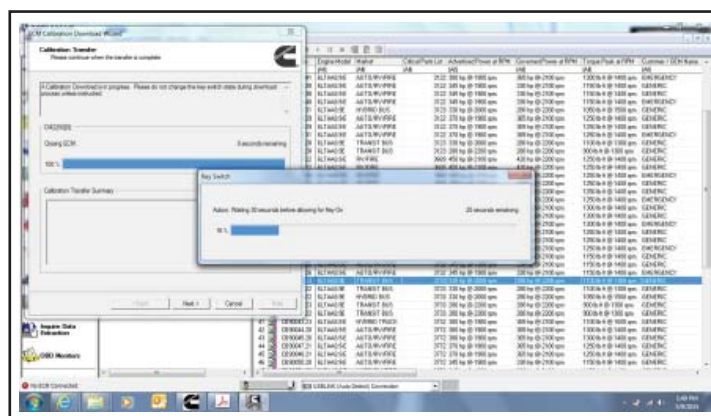


Figure 25 - Waiting Time

1.26. You will get a Calibration transfer result then click ok. See Figure 26.

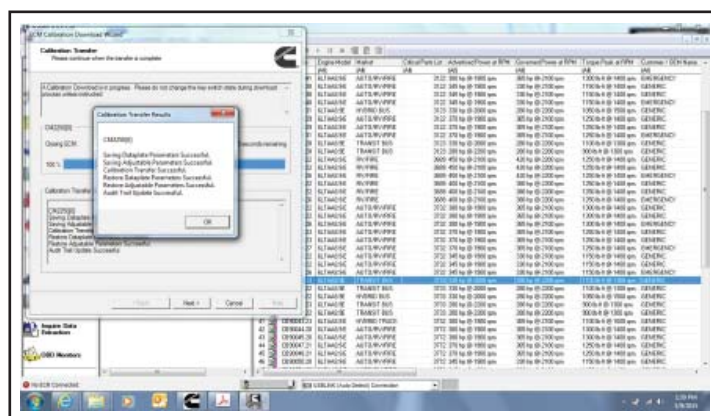


Figure 26 - Calibration Transfert Result

1.27. After ECM calibration is complete, a pop up window should appear, click on Finish. See Figure 27. ❖

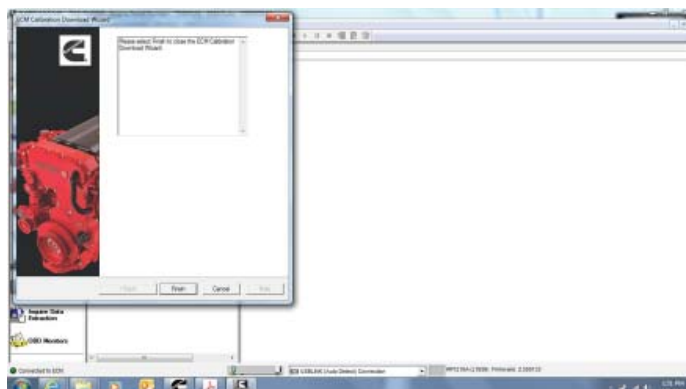


Figure 27 - Calibration Complete