

PCM Service Update

PRODUCT INFORMATION UPDATE

ZR409 Calibration Enhancement

#SUP2009-02

May, 2009

Engines Affected: 2008-2009	ZR409 6.0L	S/N: 485697- 495227
2008-2009	ZR409 6.0L CES	

PCM is extremely sensitive and committed to maintaining the best in quality and durability for your engine. Through continuous validation efforts, PCM may find from time to time, an enhancement to a particular system on the engine. PCM has recognized an opportunity to enhance the idle quality on some ZR409 6.0L engines. The engines already idle and perform with excellence, and in most cases this enhancement may not even be recognized.

Each registered owner is being contacted individually about this. As their engines get registered at PCM, a letter is sent out informing them of this calibration enhancement. They are being informed that there is no reason for them to stop using their boat, or to rush into the dealer for this enhancement. They will simply schedule this enhancement to be performed during their next required service interval.

PCM will supply the necessary files for this enhancement at no charge. Warranty reimbursement for the calibration enhancement is 0.5 hours. Multiple engine serial numbers can be submitted on one FASTFAX form, copy included at the end of this document. The calibration download can be done using your Diacom equipment, and in most cases, while you are performing other maintenance or commissioning process. The following procedure will guide you through saving the files to your computer, and downloading the correct file into the engine's ECM.

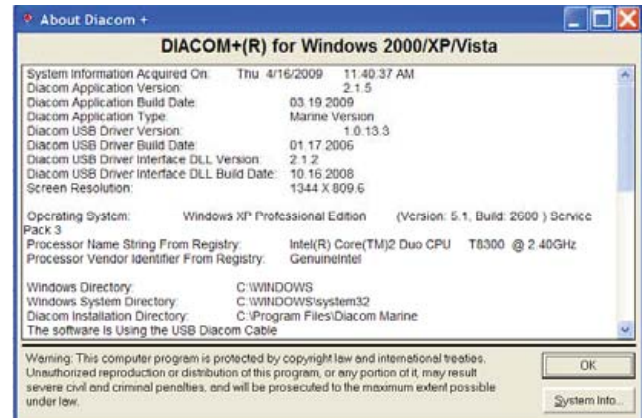
Tools Required:

RT0086, Diacom

RT0088, CAN Network Adapter



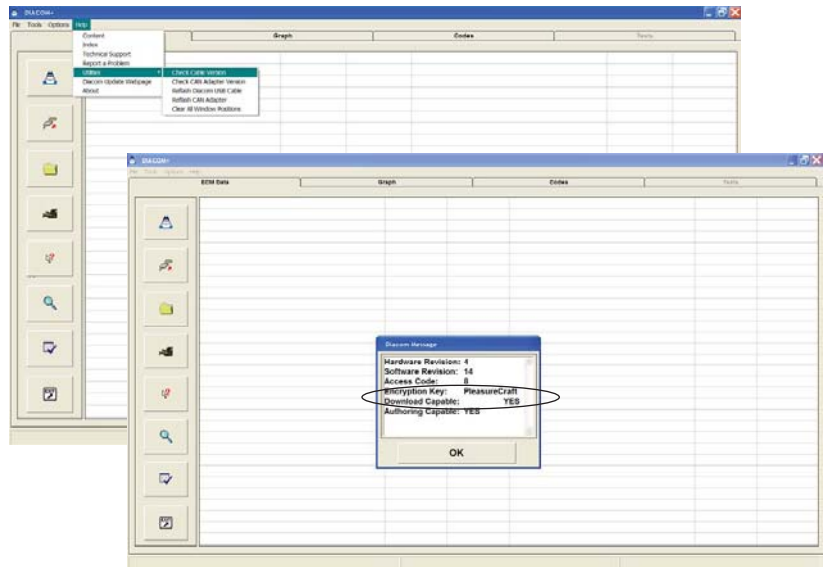
Your Diacom program should be updated to version 1.5.98 or newer. This can be found by clicking on the "Help" Menu, then click on "About" and looking at the Diacom Application Version. The splash screen also indicates the version momentarily during startup.



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Diacom Cable Verification

1. Connect your Diacom cable. Open Diacom. On the tool bar select **Help - Utilities - Check Cable Version**. (NOTE: When checking the Diacom serial cable, the cable must be connected to the DLC on an engine, with the Key-On-Engine-Off.)
2. Verify that **Encryption Key** is **Pleasurecraft** and **Download Capable** is **YES** on the **Diacom Message** display. If so, your Diacom is capable of performing the Calibration Download procedure. If not, you will need to contact Rinda Technologies to have your cable/Diacom upgraded.
3. Left-click **OK**, then proceed to the Calibration download instructions.



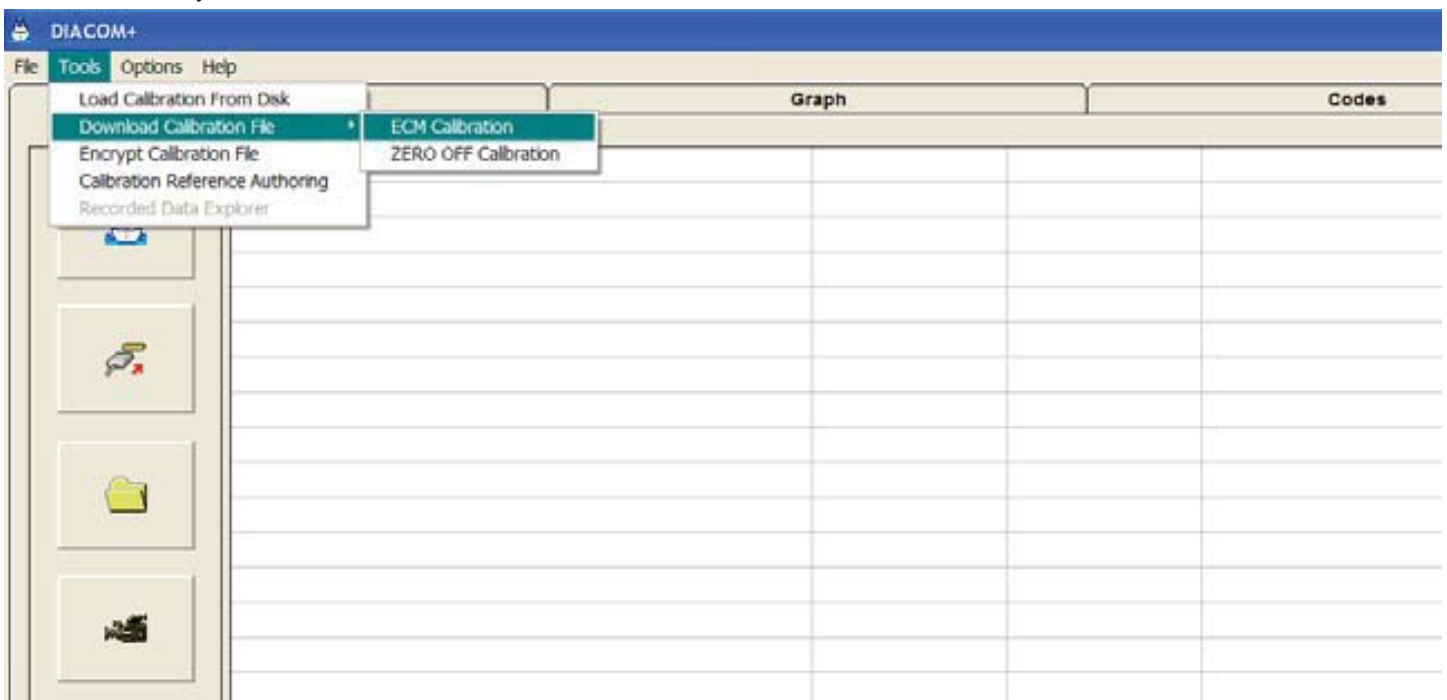
Downloading a New Calibration

To perform a calibration download with Diacom, you need several files loaded onto your computer. One file is a database file that defines the calibrations available. The other files are the actual calibration files for downloading. There are multiple calibration files, depending on application. These files should have already been downloaded from the FTP site and copied to the Diacom Marine/Cal folder on your computer. If this has not been done yet, refer to “Downloading Files from FTP Site” at the end of this update before proceeding.

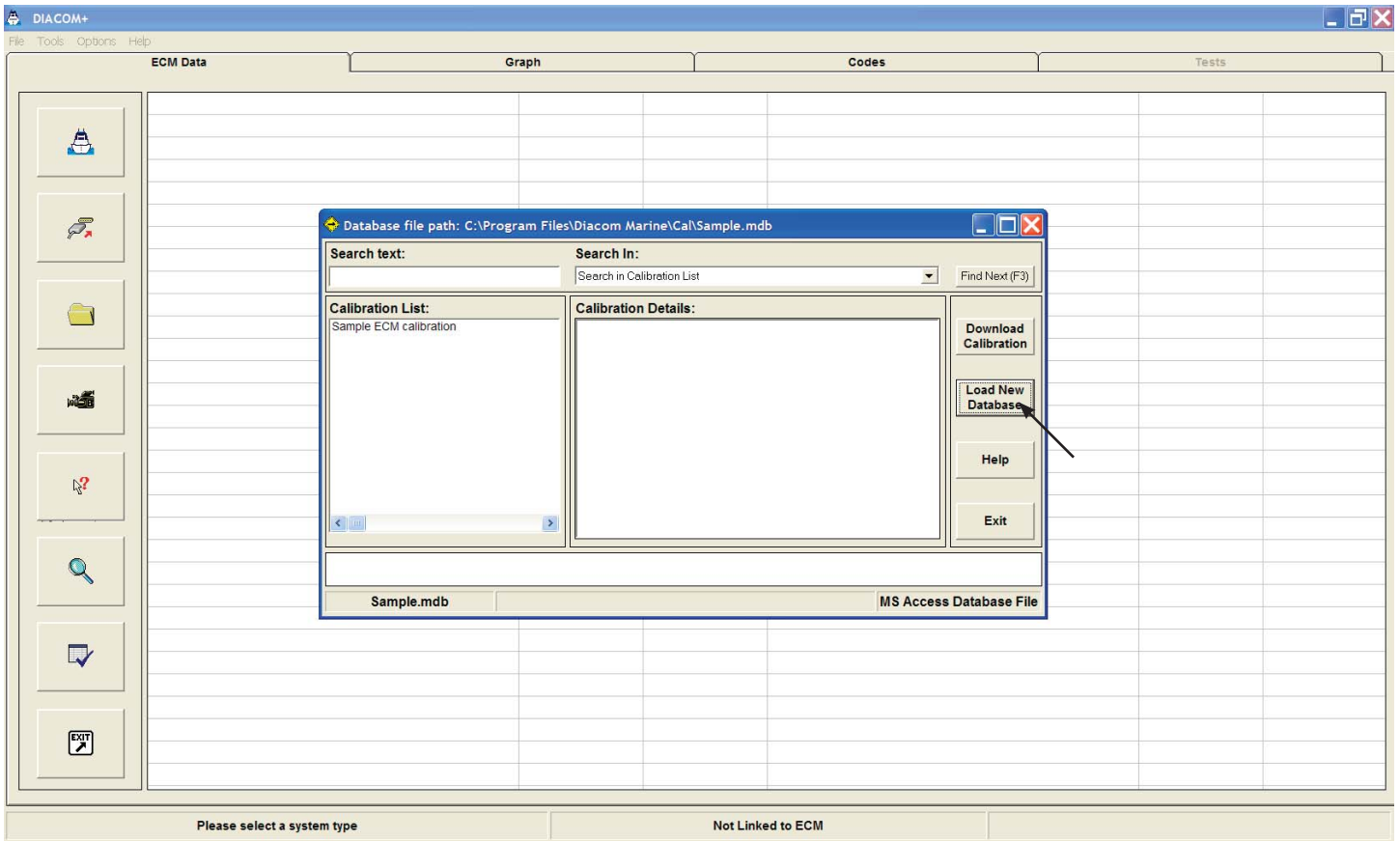
Note: Make sure that your computer has good battery power and/or plugged into a good power source. Aftermarket power inverters are not recommended good power sources and should not be used. This process should take about 15 minutes.

1. Open the Diacom program.
2. Using the CAN Network Adapter, connect the Diacom communication cable to the engine’s OBDM Diagnostic connector.
3. Turn the ignition ON, engine OFF.
4. On the tool bar select **Tools - Download Calibration File - ECM Calibration**.

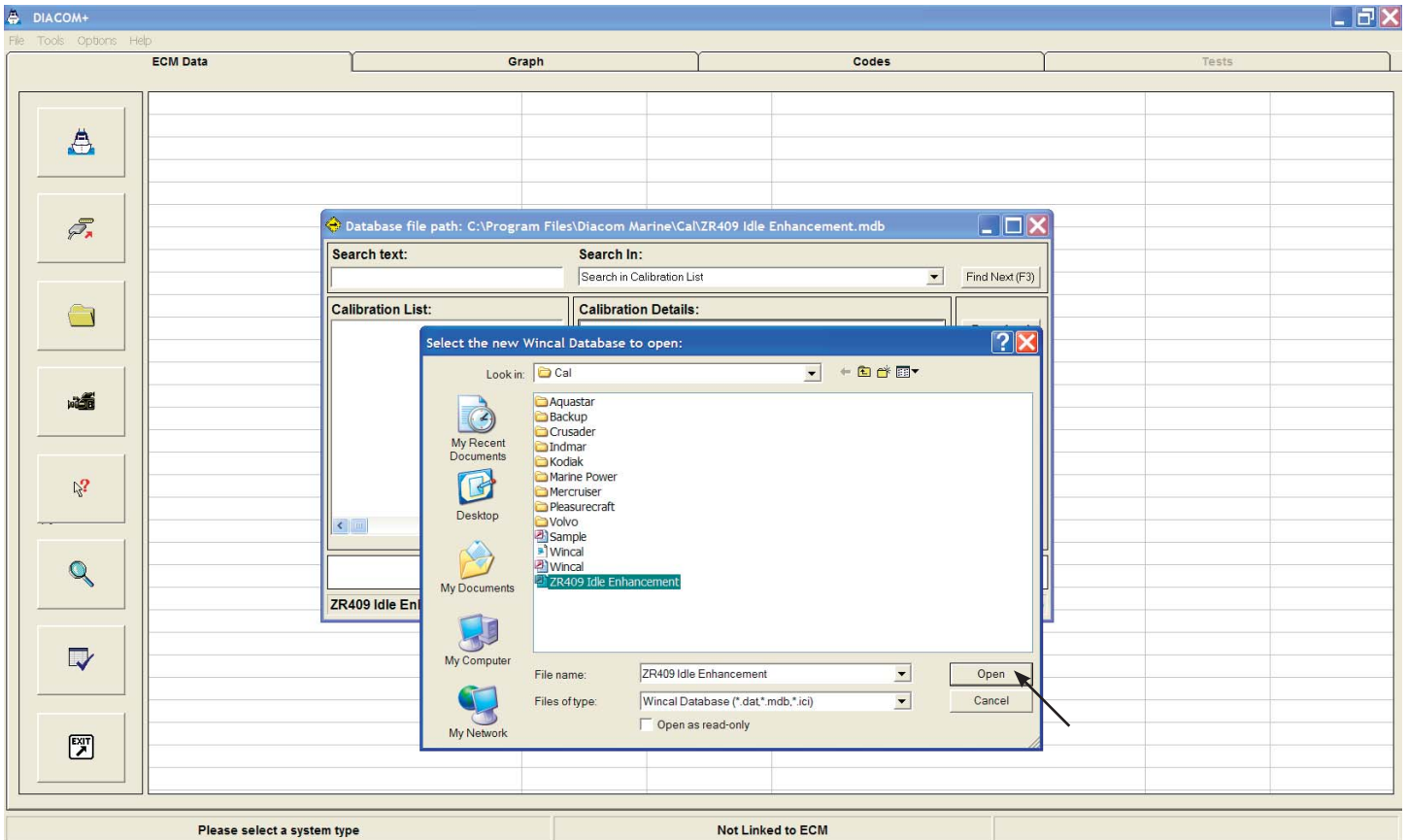
Note: If your Diacom is older than version 2.1.5, then the selection is **Tools - Download Calibration File**.



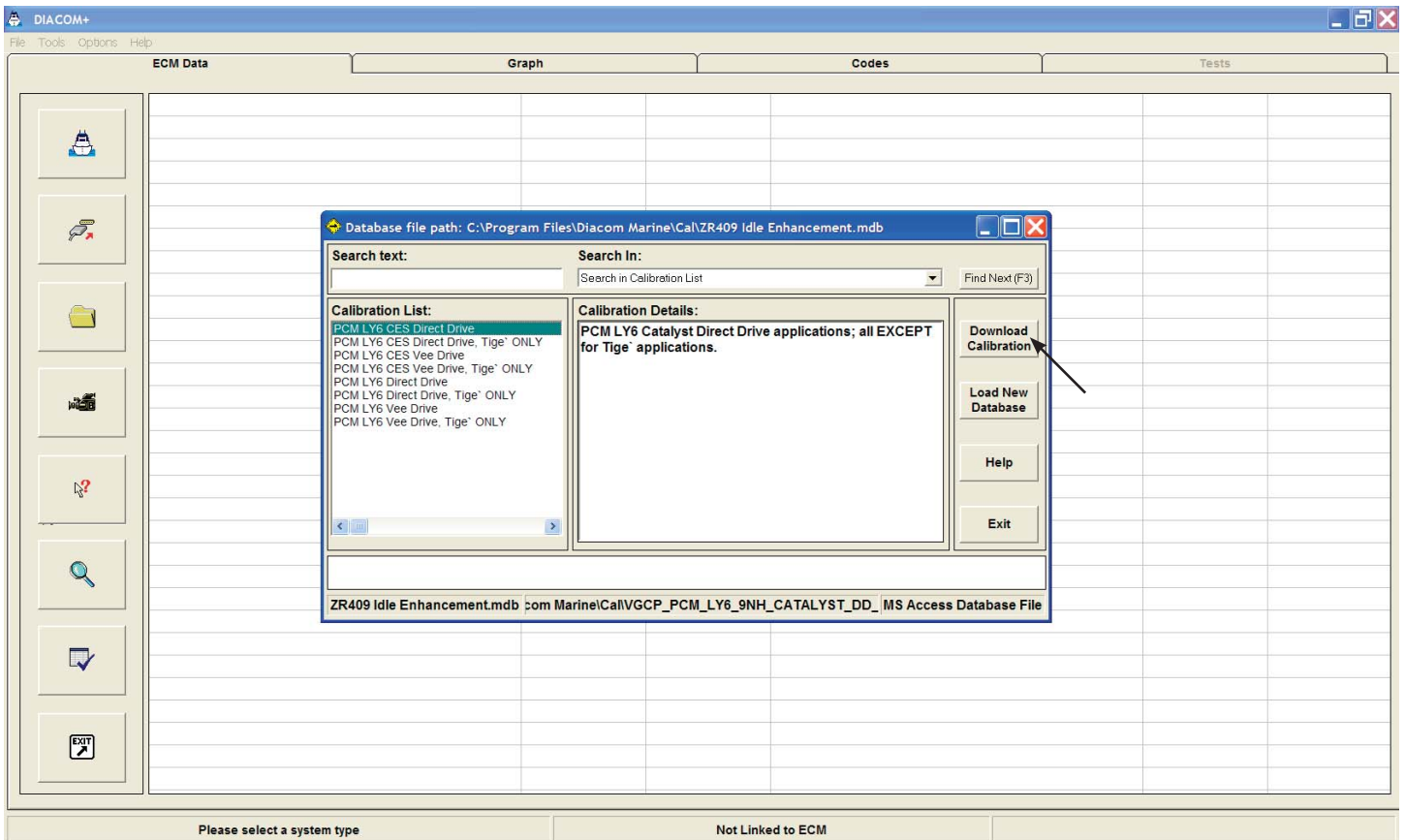
5. Diacom will open the Calibration Download screen. Select **Load New Database**.



6. Select **ZR409 Idle Enhancement.mdb** and click on **Open**.



- You should now see multiple files shown in the **Calibration List**. Select the appropriate file for the download. If you highlight a file in the **Calibration List**, a complete description of each application is shown to the right in **Calibration Details**.
- Once the appropriate file is highlighted, click on **Download Calibration**. Follow the Diacom instructions at this point. If you have any problems or questions, contact the PCM Service and Warranty Department for assistance.

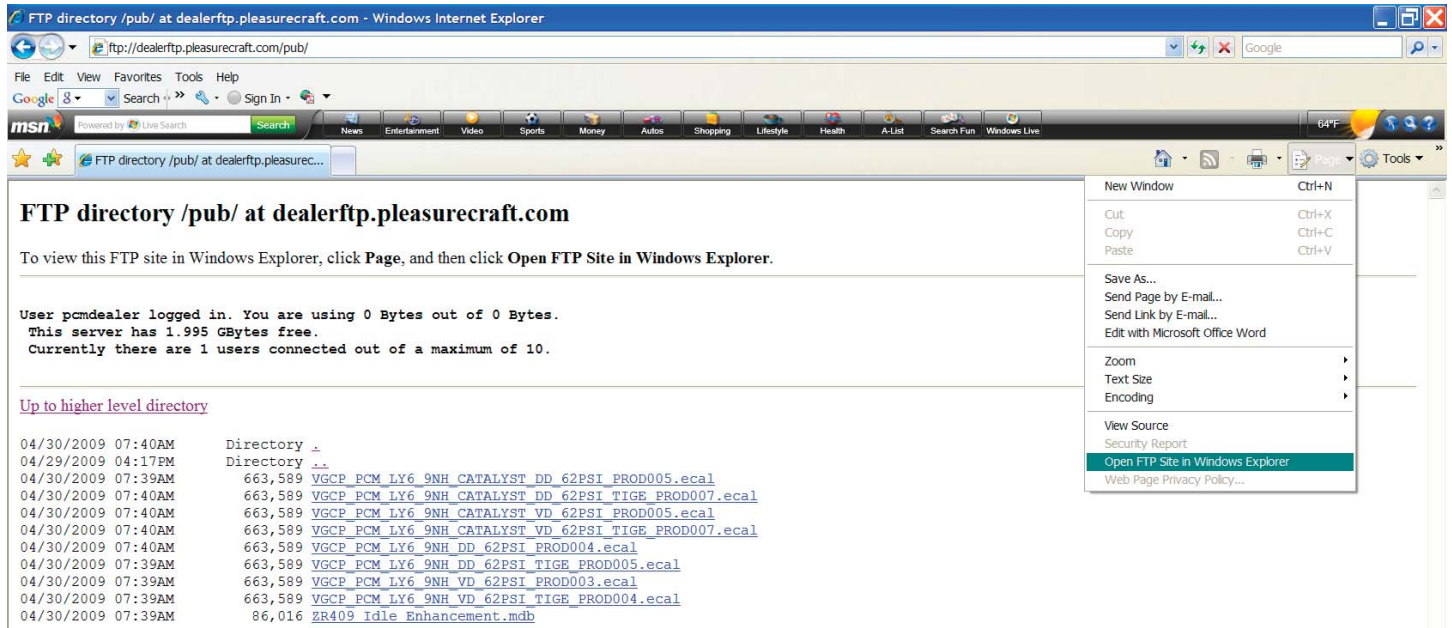


Downloading Files from FTP Site

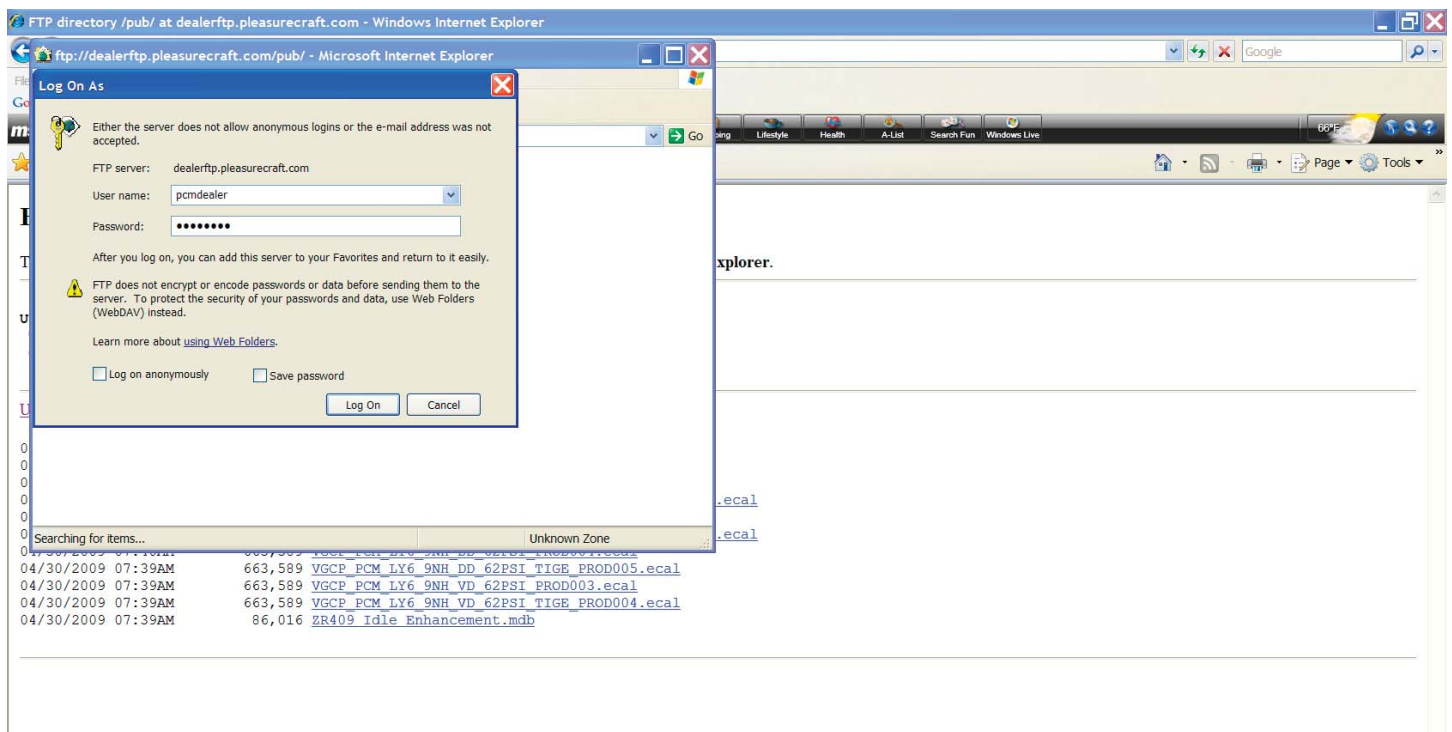
To perform a calibration download with Diacom, you need several files loaded onto your computer. These files are located on a ftp site and need to be downloaded to your computer. The following steps will guide you through the download.

In order to retrieve the required files, you will need an internet connection.

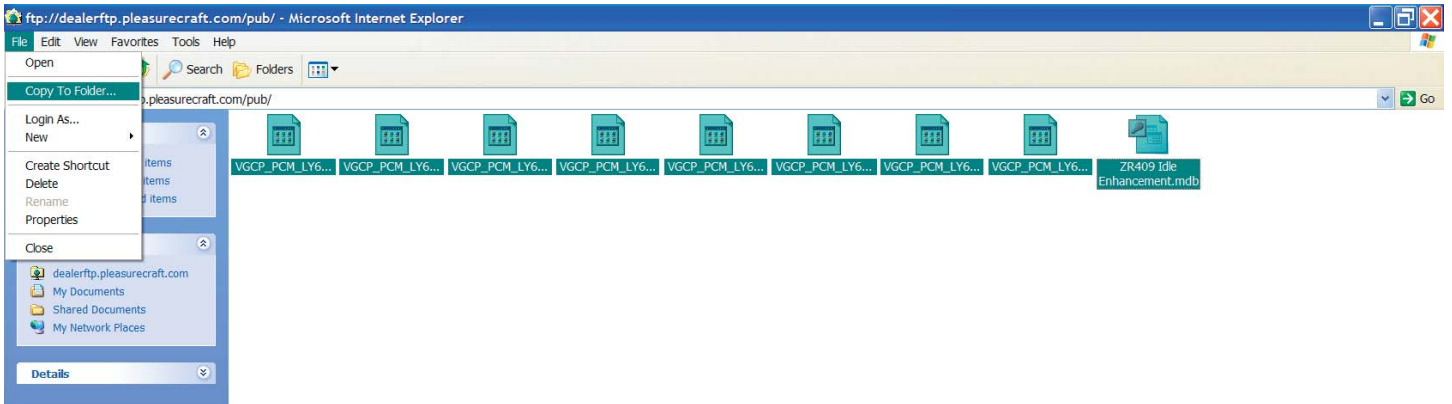
1. Open your internet browser.
2. Click on the following link.
ftp://dealerftp.pleasurecraft.com/pub/
3. Select the **Page** drop down menu.
4. Select **Open FTP Site in Windows Explorer**.



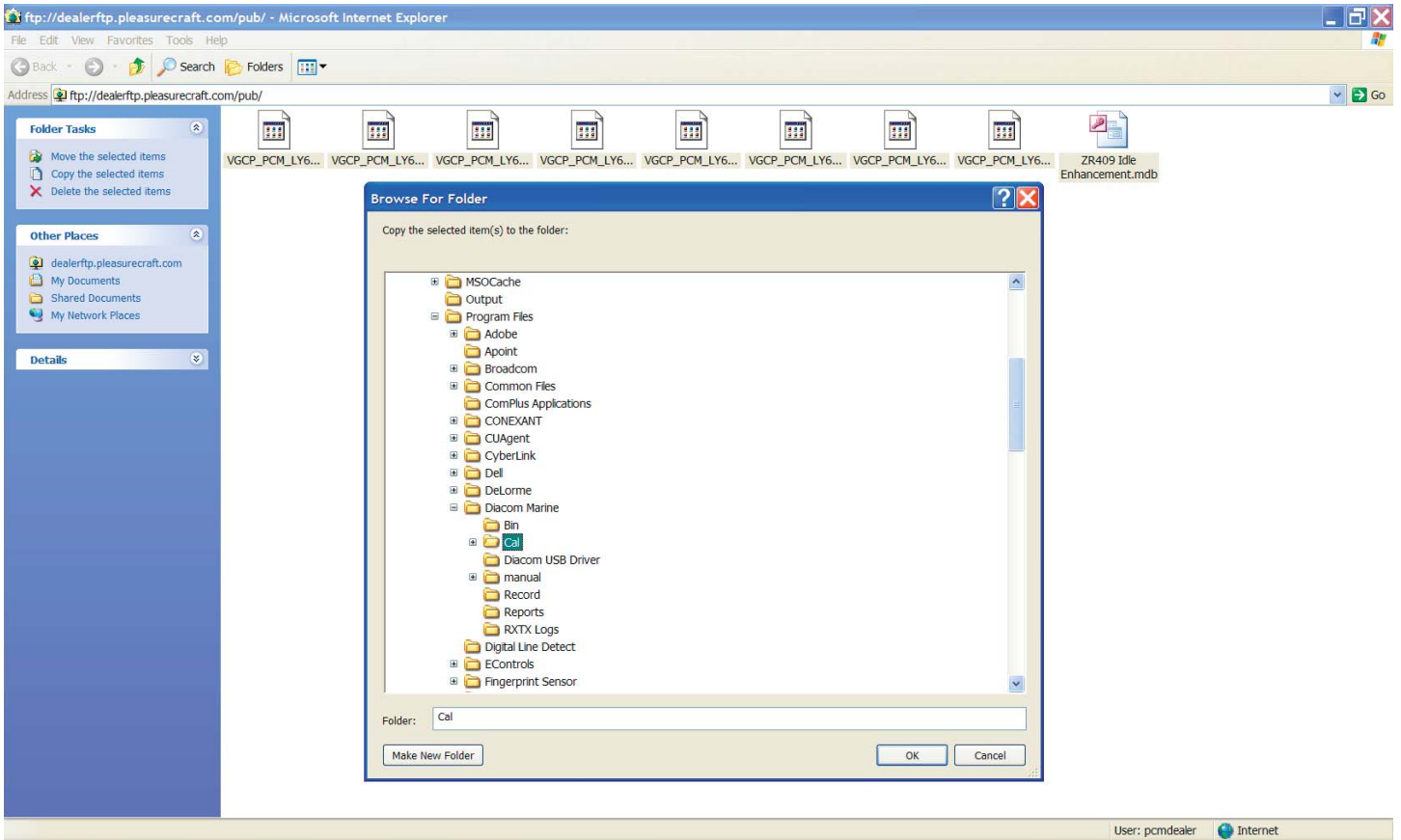
5. Enter the username and password supplied by PCM and click on **Log On**.



6. Single click on the first file.
7. Hold the Shift key and single click on the last file. All the files should be highlighted at this point.
8. Select **Copy Files to Folder**



9. Select the following folder:
C:\Program Files\Diacom Marine\Cal
10. Select **OK**



11. The files are now in the appropriate folder and are ready for the calibration enhancement.



FASTFAX WARRANTY CLAIM APPLICATION
 1-800-321-3797
 International: 1-803-345-0336

ENGINE SERIAL #: _____
 PCM CLAIM #: _____

PCM DEALER # _____ DATE: ____/____/____
 DEALER NAME: _____ TECH OR CONTACT: _____
 ADDRESS: _____
 PHONE #: _____ FAX #: _____
 OWNER NAME: _____ PHONE #: _____
 ADDRESS: _____

ENG. SERIAL #: _____ ENG. HRS.: _____
 ENG. MODEL #: _____
 TRANS. SERIAL #: _____
 TRANS. MODEL #: _____
 DATE OF SALE: ____/____/____ DATE OF FAILURE: ____/____/____
 BOAT HULL TYPE: _____
 BOAT HULL SERIAL #: _____

SYMPTOM AND DESCRIPTION OF PROBLEM: _____

IMPORTANT: THE ENGINE, DEALER, OWNER, AND SYMPTOM INFORMATION REQUESTED ABOVE, MUST BE COMPLETELY FILLED IN AND THIS FORM SIGNED OR WARRANTY CLAIM MAY BE DENIED.

QTY.	PART #	DESCRIPTION	COST	QTY.	PART #	DESCRIPTION	COST

LABOR OP. #	TIME ALLOW.	LABOR EXT.	FAIL CODE	LABOR OPERATION DESCRIPTION
	0.5 hrs			Reprogram ECM - LY6 Idle Enhancement

NOTE TO DEALER: A COPY OF THIS CLAIM MUST BE RETURNED WITH DEFECTIVE PART(S) IN 30 DAYS OR CLAIM WILL BE DENIED. RETURN PARTS TO: 1737 US HWY 76, LITTLE MOUNTAIN, SC 29075. CLAIM MUST BE SIGNED BY DEALER REPRESENTATIVE STATING THAT THE DEALER HAS THE SKILLS AND KNOWLEDGE NECESSARY TO PERFORM THE REPAIRS IN A SAFE AND SATISFACTORY MANNER, THAT THE DEALER HAS THE OWNERS CONSENT TO REPAIR, AND THAT THE DEALER AGREES TO PERFORM THE REPAIRS PER PCM'S, THEN CURRENT, WARRANTY POLICIES AND PROCEDURES MANUAL. MAXIMUM RATE PAID TO DEALERS WHO DO NOT MEET REQUIREMENTS FOR 100% REIMBURSEMENT WILL BE PAID 50% OF POSTED RETAIL LABOR RATE, NOT TO EXCEED \$40.00 PER HOUR.

	PARTS:	
	STOCK PARTS ADD 10%:	
	LABOR:	
	MISC.:	
	RETURN FREIGHT:	
	CLAIM TOTAL:	\$0.00

APPROVED AT THE ABOVE LABOR TIME.
 ADDITIONAL LABOR AND/OR EXPENSES ARE THE DEALER/OWNER'S RESPONSIBILITY!

DEALER'S SIGNATURE (REQUIRED)

APPROVED DENIED PARTS RETURN REQUIRED: YES NO

PARTS SUPPLIED BY: DEALER DISTRIBUTOR MANUFACTURER AUTH. LABOR RATE: _____ PREMIER DEALER: YES NO
 SOLD TO: CUST. # _____ SHIP TO: CUST. # _____ SHIPPING INSTRUCTIONS: GRD NDA 2 DAY SELECT 3 DAY COD OTHER
 TERMS: _____ DISCOUNT: _____ PCM ORDER # _____

Reset Form