



Software update procedure

EXP-1050 Ford Revision G

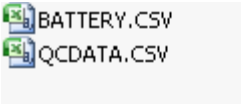
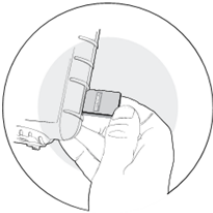





This instruction manual describes the process to successfully update your battery tester.

Read the instruction carefully and follow the steps listed.

Note: The location of the icons shown on the screen pictures in this procedure may be different from the real location in your battery tester due to different versions.

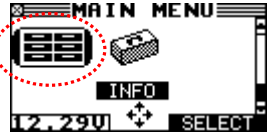

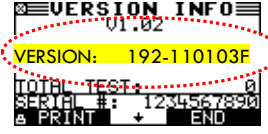
Step 1. Preparing tester for update

During the following update process, the SD card will be formatted and therefore the stored data will be lost. To save the historical data, remove the SD card from the tester and save the files on the SD card onto a local PC first!

	<p><u>Insert SD card into computer</u></p> <p>Insert the SD card into the PC.</p>
	<p><u>Store historical data</u></p> <p>Store both *.CSV file stored onto the SD card to a local PC first to prevent loss of the data during the update process.</p>
	<p><u>Insert SD card back into tester</u></p> <p>Insert the SD Card back into the tester</p>
	<p><u>Select Utility menu in tester</u></p> <p>Turn on the tester and select UTILITY from the MAIN MENU of the tester</p>
	<p><u>Format SD Card inside tester</u></p> <p>Select FORMAT CARD from the UTILITY MENU</p>
	<p><u>Format SD Card inside tester</u></p> <p>Select YES when the warning screen appears.</p>
	<p><u>Save tester configuration</u></p> <p>Select UPDATE from the UTILITY MENU</p>
	<p><u>Save tester configuration</u></p> <p>Select option 2 SAVE CONFIG and press NEXT / OK</p>

Step 2. Check required download version and save update files onto the SD card

The update files required for your battery tester are depending on the current software version of your tester. Check the current software version of your battery tester and download the matching update files via the process below.

	<p>Select Info Menu in tester</p> <p>Turn on the tester and select INFO in the main menu of the tester</p>
	<p>Select Version Info</p> <p>Select VERSION INFO in the info menu.</p>
	<p>Determine current firmware</p> <p>The version info screen shows the current firmware version of the tester. Check the current version and determine the required download file based on the table below.</p>

Insert SD card into computer

Remove SD Card from tester and insert into SD card reader of your PC

WARNING:
NEVER FORMAT THE SD CARD INSIDE A COMPUTER!

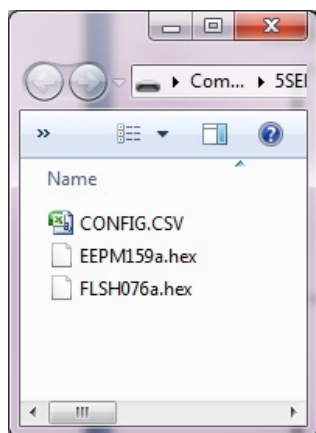
Download update files

Download / copy the **Update** files from your computer location and save them to the SD Card.

NOTE: The New update files version type should be the same as before.

e.g. An original "A" version should be replaced with an Update "A" version.

<u>Current Version</u>	<u>Required update files</u>
192-110103 F	FLSH071 F EEPM088 F (Update from Rev F to Rev G)
192-110103 E	FLSH071 E EEPM088 E (Update from Rev E to Rev G)
192-110103 D	FLSH071 D EEPM088 D (Update from Rev D to Rev G)
192-110103 C	FLSH071 C EEPM088 C (Update from Rev C to Rev G)
192-110103 B	FLSH071 B EEPM088 B (Update from Rev B to Rev G)
192-110103 A	FLSH071 A EEPM088 A (Update from Rev A to Rev G)

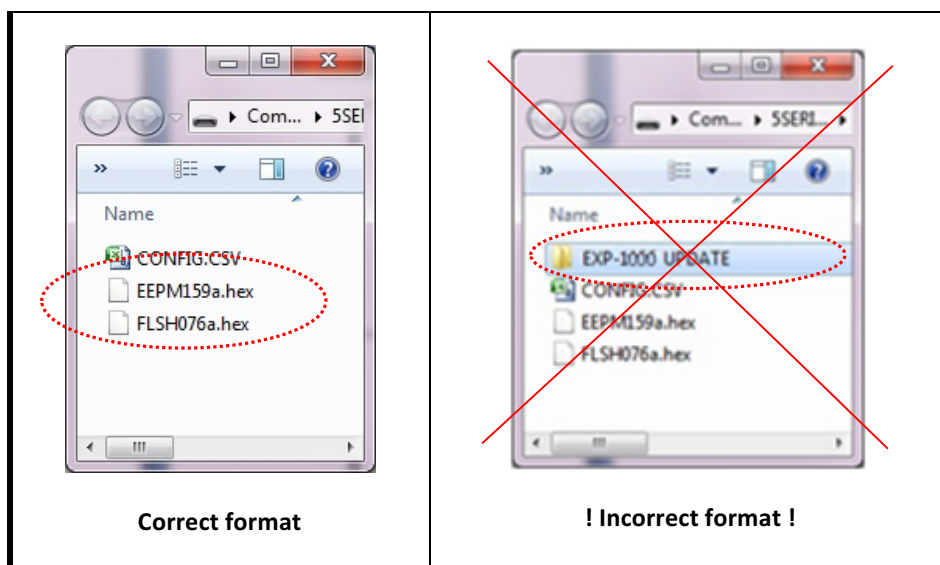


Save update files onto SD Card

The update folder contains **2 update files** marked as *.hex

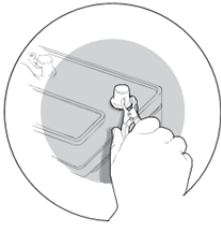
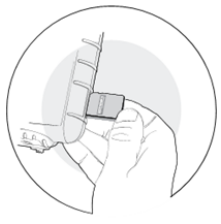





Save both files directly into the root of the SD Card.

WARNING:
NEVER COPY A FOLDER ONTO THE SD CARD!


Example of SD Card content for update

Step 3. Update tester firmware

After step 1 and 2 are completed, the tester is now ready to be updated with the update files copied onto the SD card. Follow the steps below to update the tester firmware.

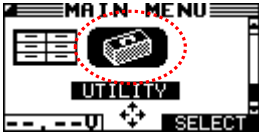



	<p><u>Connect to 12 volt battery</u></p> <p>Connect the tester to a 12 volt external battery to prevent loss of power during the software update</p>
	<p><u>Insert SD card in tester</u></p> <p>Insert the SD Card back into the tester</p>
	<p><u>Select Utility menu</u></p> <p>Select UTILITY from the MAIN MENU of the tester</p>
	<p><u>Select Update menu</u></p> <p>Select UPDATE in the UTILITY MENU</p>
	<p><u>Update tester firmware</u></p> <p>Select option 1 FIRMWARE and press NEXT / OK</p>
<p><i>Example screen</i></p> 	<p><u>Update tester firmware</u></p> <p>As soon as the update warning screen appears, select YES</p>
	<p><u>Update tester firmware</u></p> <p>The tester will start reprogramming the FLASH memory. This will take approximately 5 minutes</p>

Step 4. Update tester firmware *continued*

	<p><u>Update tester firmware</u></p> <p>After the Flash update the tester will reprogram the EEPROM memory</p>
<p>SUCCESS UPDATE COMPLETE TURN OFF TOOL AND REPLACE MMC UPDATE CARD WITH DATA CARD</p> <p>REBOOT TO CONTINUE</p>	<p><u>Reboot tester</u></p> <p>After the reprogramming is complete, the tester will prompt to restart the tester.</p> <p>Switch the tester OFF and ON again. The new software is now loaded onto the tester</p>

Step 5. Reinstall original tester configuration

After the update of the firmware the tester is back into factory settings. To reload the original configuration settings of the tester, follow the steps below.

	<p><u>Select Utility menu</u></p> <p>Turn on the tester and select UTILITY from the MAIN MENU of the tester</p>
	<p><u>Select Update menu</u></p> <p>Select UPDATE from the UTILITY MENU</p>
	<p><u>Load original configuration</u></p> <p>Select option 3 LOAD CONFIG and press NEXT / OK</p>
	<p><u>Reboot tester</u></p> <p>After your personal configuration settings is reloaded onto the tester, switch the tester OFF and ON again</p>