

Updating Camel Max Series Software with USB Thumb Drive

ESP 00041 Rev A

Purpose:

This document provides step-by-step instructions for updating the Camel Max Series software using programming cable and a preloaded USB thumb drive

Scope:

This document is limited to updating Camel Max Series control systems with a USB drive. See ESP 00038 for updating the software using a computer.

Users:

Super Products engineers and technicians, and Dealer and customer service technicians.

Tools Required:

1. A Camel Max Series USB Programming Kit (p/n 0030984) is required for updating software.
2. Current Camel Max Series software loaded on a USB thumb drive.
3. Medium Philips screwdriver.

Contents:

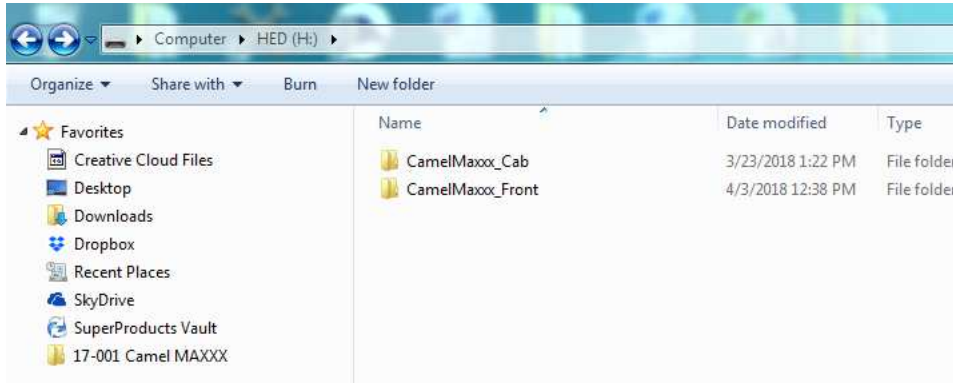
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APPROVAL PROCESS

1. Do not update software within a truck without first obtaining factory approval. You may email your request to: municipalservice@superproductsllc.com and include within the subject line, Request to Update Software. Give a brief explanation why the update is needed. Give the unit's serial number, and where the update will be performed.
2. The Camel BU will evaluate the request and will respond with an email message, approving or rejecting the request.
3. Approval to update the unit's software will include a case number, the unit serial number, and instructions for what software package to download. Save this message for your records.
4. After updating the software, email Super Products with the date the new software was installed, where the work was done, who performed the updates, and the unit's serial number. You may convey this information to us by replying to the approval email we sent you.
5. It takes eleven (11) minutes to update the software in the front display and ten (10) minutes to update software in the cab display. Total time to perform this task is thirty (30) minutes, counting the download times.

PREPARE THE FILES

1. Connect a USB drive to a PC
2. In the root directory of the USB drive, copy and paste the two folders “CamelMaxxx_Cab” and “CamelMaxxx_Front” front the software archive of the desired revisions.

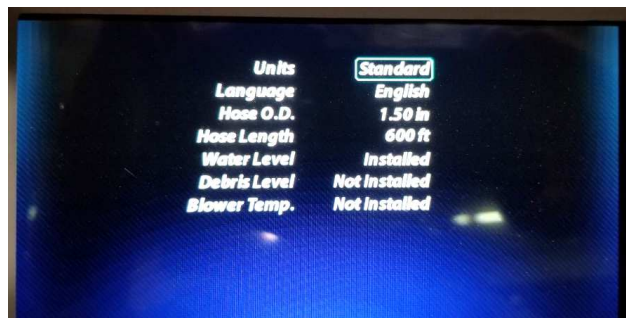


3. Eject the USB drive from the computer

DOCUMENTING EXISTING PARAMETERS

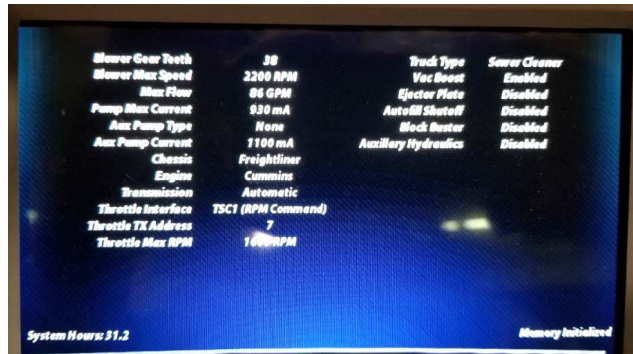
Each control system is setup at the factory according to several factors, including chassis make, engine make and ordered options. These values may be lost when updating the control system’s software. As such, it is necessary to document the values prior to updating the software. You can take snapshots of the display screens using your cell phone or a digital camera. If neither is available to you, you can pencil in the values on a form included at the end of this document. The process is as follows:

1. Turn ignition turned ON, set the Park Brake, place the truck in WORK mode, and chock the wheels.
2. At the front display, press the MENU button.
3. Ensure OPTIONS is highlighted in green. If not use the navigation buttons to highlight OPTIONS.
4. Press the navigation SELECT button.
5. The OPTIONS screen is now displayed. Below is an example of this screen. You want to photograph this screen or record the values on the form provided.



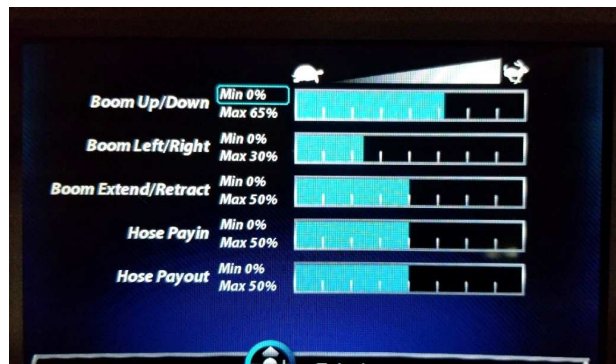
OPTIONS SCREEN

6. Press the **FACTORY** button.
7. The **FACTORY** settings screen is now displayed. Below is an example of this screen.
You want to photograph this screen or record the values on the form provided.



FACTORY SETTINGS SCREEN

8. Press the **HOME** button.
9. Press the **MENU** button.
10. Use the down navigation arrow to scroll down to the **VALVE SETTINGS** screen.
11. Press the **SELECT** button.
12. The **VALVE SETTINGS** screen is now displayed. Below is an example of this screen.
You want to photograph this screen or record the values on the form provided.



VALVE SETTINGS SCREEN

13. Once you have documented the values within the three screens, proceed to the next section.

PERFORMING THE SOFTWARE UPDATE

The programming procedure is the same between the front display and cab display with the exception of the location of the 'Update Software' button. To retain the EEPROM values, **the front controller MUST be programmed first, then cycle ignition power**, and then program the cab.

Programming the Front Display

1. Ignition must be ON and the truck in WORK mode.
2. Open the front enclosure.
3. On the backside of the display, remove the cap from PORT E.
4. Carefully connect the programming cable to PORT E, taking care not to damage the threads on the display.
5. Plug the USB with the new software files into the end of the programming cable.



PROGRAMMING CABLE CONNECTED TO PORT E

6. Ensure the display is illuminated and at the home screen.
7. Press the MENU button on the display.

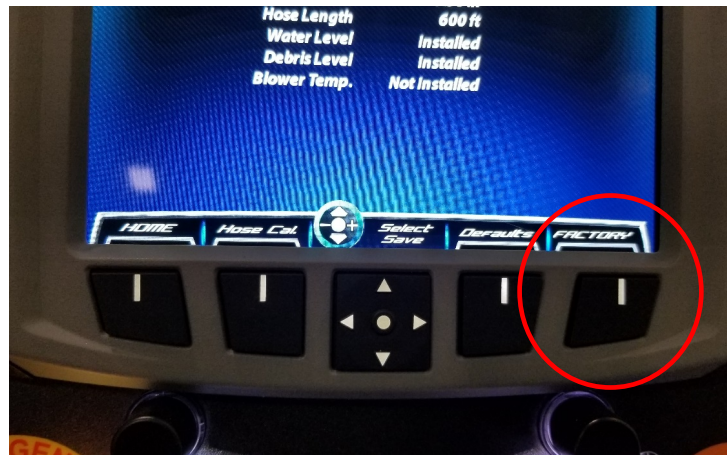


8. Ensure OPTIONS is highlighted, and if so, press the SELECT button

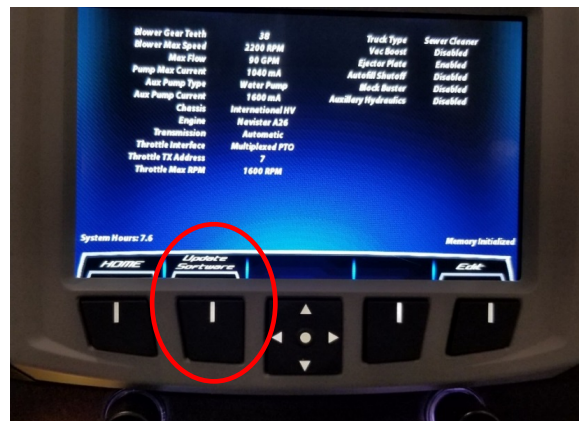


Select Button

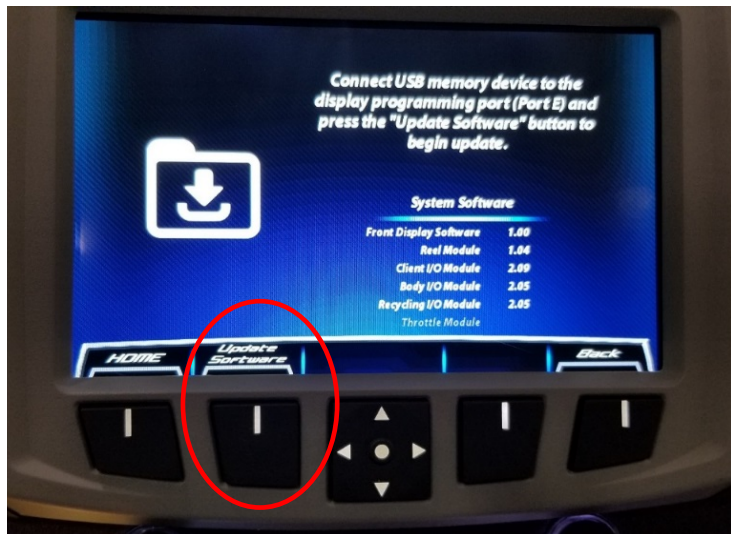
9. Press the FACTORY button.



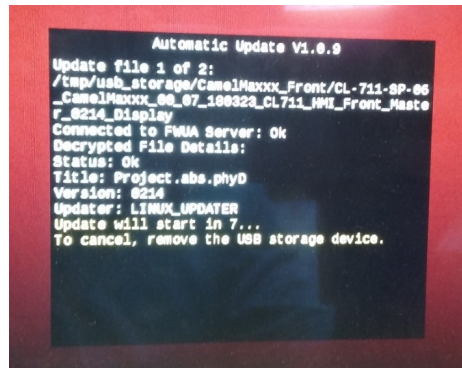
10. Press the UPDATE SOFTWARE button.



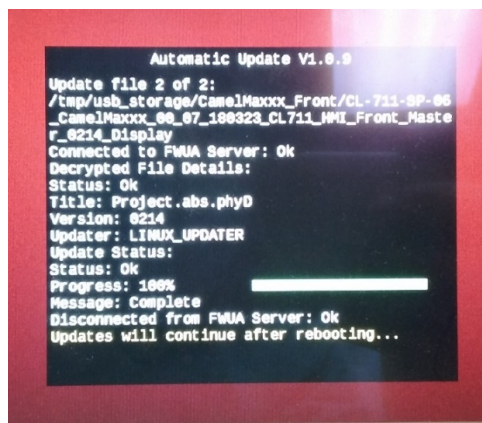
11. When you see the following screen, press the UPDATE SOFTWARE button.



12. The display will automatically start downloading file 1 of 2.



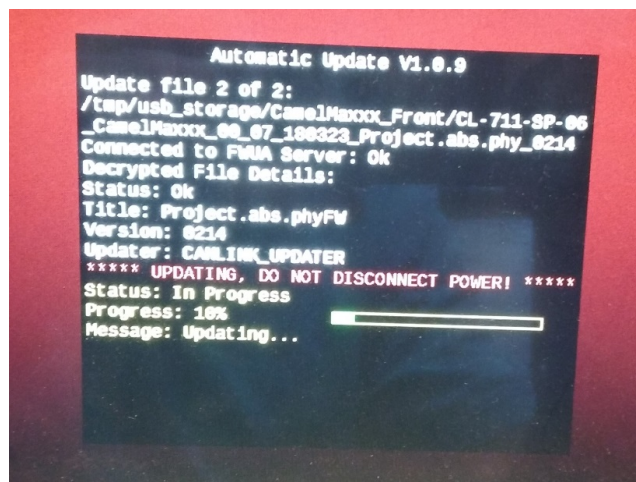
A screen will appear showing the progress of the download.



When file 1 of 2 has downloaded the display will reboot and start downloading file 2 of 2.



Again, you will see a screen showing the progress of the download.



13. When file 2 of 2 has finished downloading the display will reboot and display the normal HOME screen. At that time remove the programming cable and replace the cap on port E.
14. Close the enclosure.
15. **Turn ignition OFF. CAUTION: Failure to turn off the ignition at this point will cause the update to fail.**

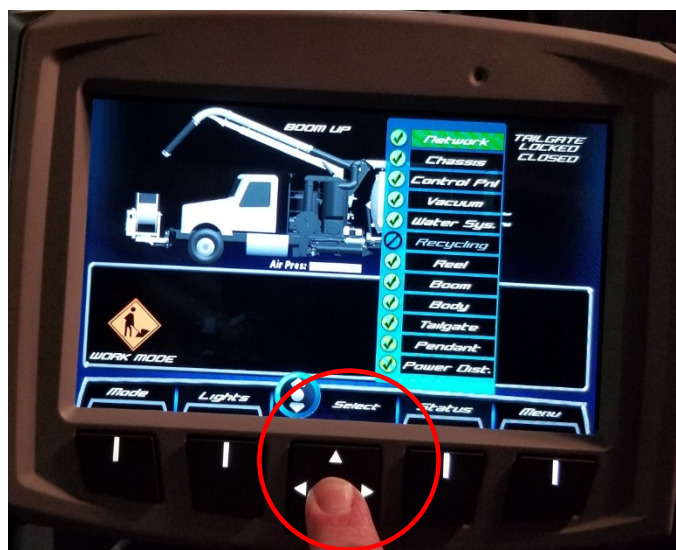
Programing the Cab Display

The process to download files to the cab display is as follows:

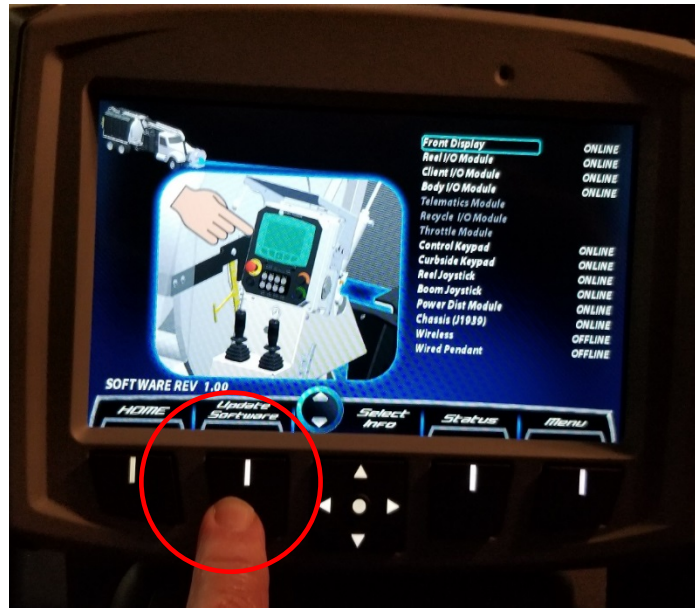
1. Go to the display located inside the cab.
2. Remove the cap from port E on the back of the display, and connect the programming cable to the port.
3. Turn ignition ON. Do not proceed until the control system has booted up.
4. From the Home screen, press the STATUS button



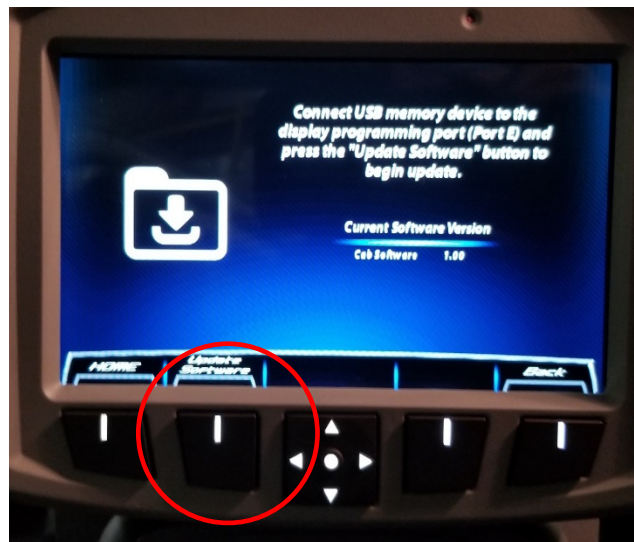
5. NETWORK should be highlighted in the next screen. If not, use the UP/DWN navigation switch to highlight the NETWORK option. When NETWORK is highlighted, press the SELECT button.



6. Press the UPDATE SOFTWARE button.



7. When you see the following screen, press the UPDATE SOFTWARE button.



8. At this point the display will automatically start downloading file 1 of 2, reboot, and continue to download file 2 of 2, just as it did when downloading files to the front display.
9. When file 2 of 2 has finished downloading the display will reboot and display the normal HOME screen. At that time remove the programming cable and replace the cap on port E.
10. Cycle ignition and validate both the front and cab displays initialize correctly.

VALIDATE FACTORY SETTINGS ARE CORRECT

1. Refer to the first section, Documenting Existing Settings.
2. Follow the steps given for accessing the screens containing factory set values; the Options screen, Factory Settings screen and Valve Settings screen. The Options and Valve Settings screens are not password protected. To change values when in one of these screens, press the navigation switch's SELECT button. Arrow Up/Down to the line you wish to change. Then use the Left/Right arrows to change the value. When finished making changes, press SAVE/SELECT button.
3. If the values in the Factory Settings screen are incorrect, you need to contact Super Products Municipal Support for assistance. You may contact Support by phone or by email.

Phone: 262-784-7100 Option 2

Email: municipalsupport@superproductsllc.com

CRIB SHEET for RECORDING FACTORY SETTINGS

UNIT S/N: _____ DATE: _____ BY: _____

OPTIONS SCREEN

Units	
Language	
Hose O.D.	
Hose Length	
Water Level	
Debris Level	
Blower Temp	

FACTORY SETTINGS SCREEN

Blower Gear Teeth	
Blower Max Speed	
Max Flow	
Pump Max Current	
Aux Pump Type	
Aux Pump Current	
Chassis	
Engine	
Transmission	
Throttle Interface	

Blower Gear Teeth	
Blower Max Speed	
Max Flow	
Pump Max Current	
Aux Pump Type	
Aux Pump Current	
Chassis	
Engine	
Transmission	
Throttle Interface	

VALVE SETTINGS

FUNCTION	MIN	MAX
Boom Up/Down		
Boom Left/Right		
Boom Extend/Retract		
Hose Payin		
Hose Payout		

Change History:

Rev	Change	Issued By	Approved By	Date
A	Initial release	R Fouts	J Hetcher	6-26-19
B				
C				