

Subject **JVM Software Update Procedure**

**Class: INFO**

Series V-Range (501,651,801)

Revision: E Sheet 1 of 8

Release Date: 16.12.2015

ECM: 714965

Product Code: A + B

With the introduction of CAN communication and control on the truck mounted range of Johnston Sweepers, there is now the added functionality to update the software of the JVM adding additional features and upgrades to the sweeper.

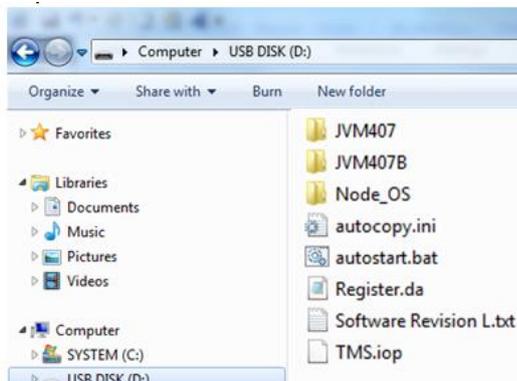
## Step One: Prepare USB Flash Drive

- 1.1 Obtain the latest version of the V-Range “TMS\_SoftwareServicePackage\_x.zip” from Johnston Customer Service. The last digit of the file name will indicate the revision level. For example “TMS\_SoftwareServicePackage\_C” = Revision level C.
- 1.2 Unzip the file “TMS\_SoftwareServicePackage\_x.zip”
- 1.3 Erase ALL data contained on the USB flash drive (Part No: 7022225)



**Figure One: JSL USB Flash Drive**

- 1.4 Add the **contents** of the folder “TMS\_SoftwareServicePackage” to the USB flash drive.
- 1.5 Check to ensure that the USB flash drive file structure is identical to the image shown in figure Two



Control Software, now within two folders, the USB will automatically detect which one to load  
Node OS Files  
Files for download, USB will automatically detect which one to use  
Register to Preset Bytes in JVM  
Revision Note text  
Graphical File

**Figure Two: File listing on USB flash drive (New look structure shown from revision L)**

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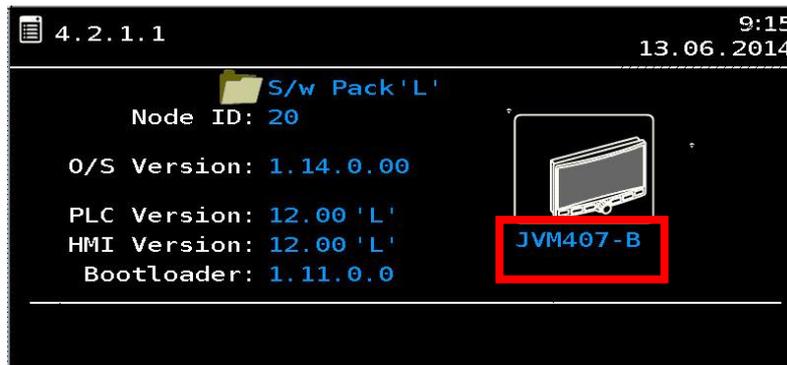
## Step Two: Determine the Controller type

2.1 Switch on the ignition and take note of any text that appears in the bottom right hand corner of the display during the time taken for the progress bar to fill.



**Figure Three: Controller Type**

2.2 The same information is available in menu 4.2.1.1. If you saw text stating “JVM407-B” then proceed to step four. Otherwise if you saw “JVM407” or there was no text continue to step three



**Figure Four: Controller Type**

## Step Three: Software Download – JVM-407

3.1 Ensure the ignition is off.

3.2 Carefully open the rubber cover on the front of the JVM to expose the USB port.

3.3 Insert the USB flash drive into USB port.

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3.4 Press and hold buttons F1 & F3 on the display.



3.5 Switch on the ignition.

3.6 Release buttons F1 & F3 when the following text appears;

*“start operating system in STOP mode”*

3.7 Software will now download from the USB flash drive automatically.

**Note: Software download can take 5-10 minutes depending on the size of the update.**

**\*\*\*\*Never switch off the ignition, isolate the vehicle or disconnect the harness during the download process\*\*\*\***

3.8 Once the software download is complete the following message will appear;

*“Press any key or touch screen to continue”*

Press any of the JVM buttons to continue.

3.9 The JVM will now reboot. Once rebooted, turn off ignition of machine.

**\*\*\*\*First shutdown of machine after software update may take 4-5 min. Never isolate the vehicle or disconnect the harness while this takes place\*\*\*\***

3.10 Remove the USB flash drive and continue to step five.

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## Step Four: Software Download – JVM-407B

**\*\*\*Software Packs predating 'L' will not function on the JVM-407B unit\*\*\***

4.1 Ensure the ignition is off.

4.2 Carefully open the rubber cover on the front of the JVM to expose the USB port.

4.3 Insert the USB flash drive into USB port.

4.4 Press and hold buttons F1 & F3 on the display.



4.5 Switch on the ignition.

4.6 Release buttons F1 & F3 when either of the following text appears:

*“Project Load Prevented”*

*or*

*“Please select update source:*

*Press [F1] for USB | Press [F3] for SD Update”*

*(Text is dependent on the previous version of OS loaded on the JVM407B)*

4.7 If the prompt to push F1 or F3 is shown, then press **F1** and the update will start. If a prompt is not shown then update will continue automatically.

4.8 Software will now download from the USB flash drive.

Note: Software download can take 5-10 minutes depending on the size of the update.

\*\*\*\*Never remove the USB, switch off the ignition, isolate the vehicle or disconnect the harness during the download process\*\*\*\*

4.9 The display can reboot twice during the update download procedure. The update process is complete when the display performs a normal boot sequence and loads to show the standby screen (Clock page).

4.10 Switch off the ignition and allow the JVM to shut down fully.

4.11 Remove the USB drive from the JVM-407B and continue with step five

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**Class 1** = Immediate, **Class 2** = At next service point, **Class Info** = For parts and service information.  
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## Step Five: Passcode Entry

5.1 Start JVM, press the ignition and then press button F3 to access the Main Menu 4.0.



Figure Five: Menu 4.0, Main Menu

5.2 Select Menu 4.14 – System Security.

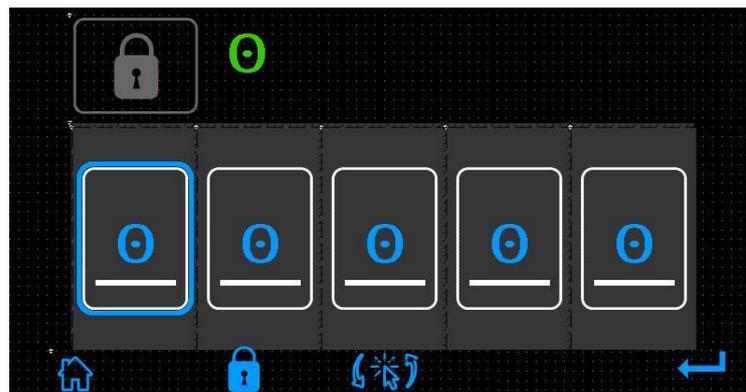


Figure Six: Menu 4.14, System Security

5.3 Enter the “Service” passcode 88335.

5.4 Press the “Enter” key F4.

5.5 Exit the menu by pressing F1.

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## Step Six: Operating System (OS) Update

6.1 Go to Menu 4.11 – Service, and select option 3, OS Downloads.

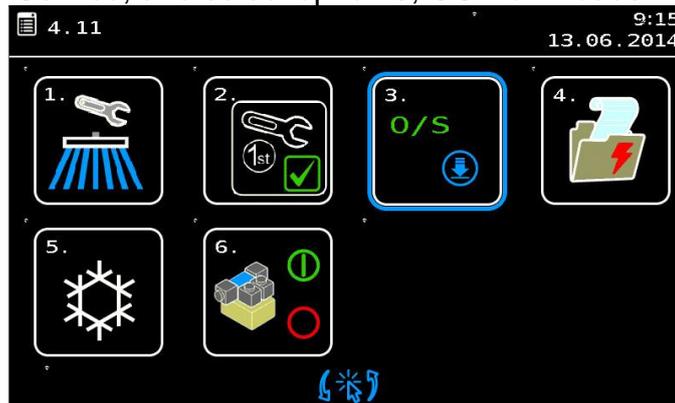


Figure Seven: Menu 4.11, Service Menu

6.2 Select the area of the sweeper which a node operates (E.g Hopper)

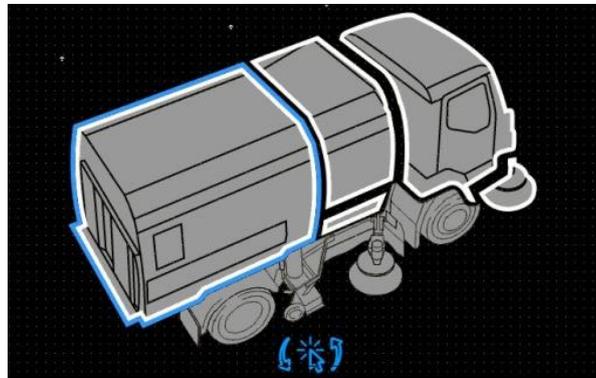


Figure Eight: Menu 4.11.2 , Sweeper Area Select

6.3 Select a specific node (E.g Hopper IO Node) (Mark 1 Electrical only)

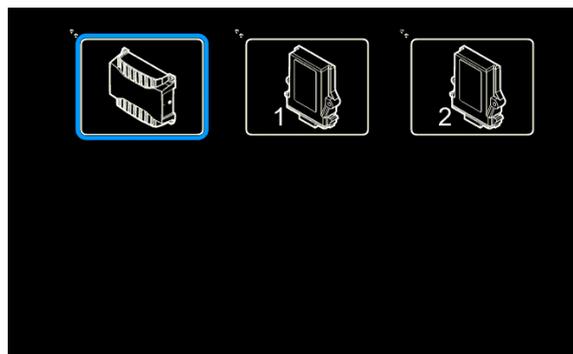


Figure Nine: Menu 4.11.2 , Subframe Nodes

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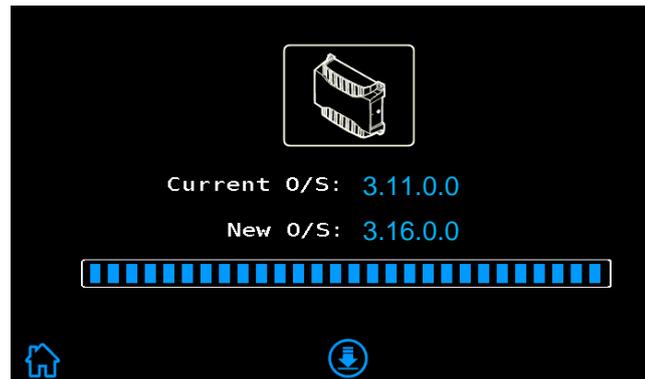


Figure Ten: Menu 4.11.2.4.1 Subframe IO Node

6.4 Compare the Current O/S number with the New O/S number and if different, the Node O/S must be updated

6.5 To download the “New OS”, press the centre button on the JVM to start the OS update. The blue bar will indicate the progress of the download.

**\*\*\*Never switch off the ignition, isolate the vehicle or disconnect the harness during the download process\*\*\***

6.6 Once the green tick appears and the text updates, the OS download is complete.

6.7 Repeat the process for the Centre console, Palm Controller, System Locker IO Node, Powapak IO Node and the High Current Nodes

6.8 Once all OS Updates are complete, exit from the Menus and switch off the ignition.

6.9 Wait one minute and then switch on the ignition.

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## Step Seven: Clear Emergency Codes

7.1 Go to Menu 4.2 – CANbus Information.

7.2 Select the Sub Menu for the Powapak IO Node

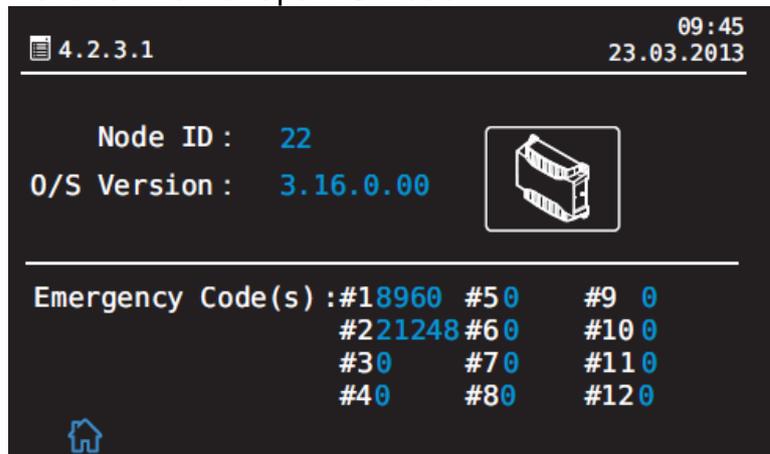
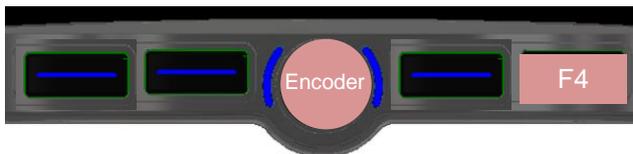


Figure Eleven: Menu 4.2.3.1 Powapak IO Node

7.3 Press together the following buttons to clear the codes

### Rotary Encoder + F4



7.4 Repeat the process for the System Locker IO Node, Hopper IO Node (and the High Current Nodes (Mark 1 Electrical only))

7.5 Switch off the ignition, the JVM software update is now complete

### Parts Required

Item	Part No.	Description	Quantity
1	7022225	USB Stick	1
2	7029152	TMS Software Service Package Files	1

**Standard repair time = 20 minutes**

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