![YASKAWA PARTNER SUPPORT - Shared Integration Experience]

This document captures ideas, experiences, and informal recommendations from the Yaskawa Partner Support team. It is meant to augment – not supersede manuals or documentation from motoman.com. Please contact the Partner Support team at partnersupport@motoman.com for updates or clarification.
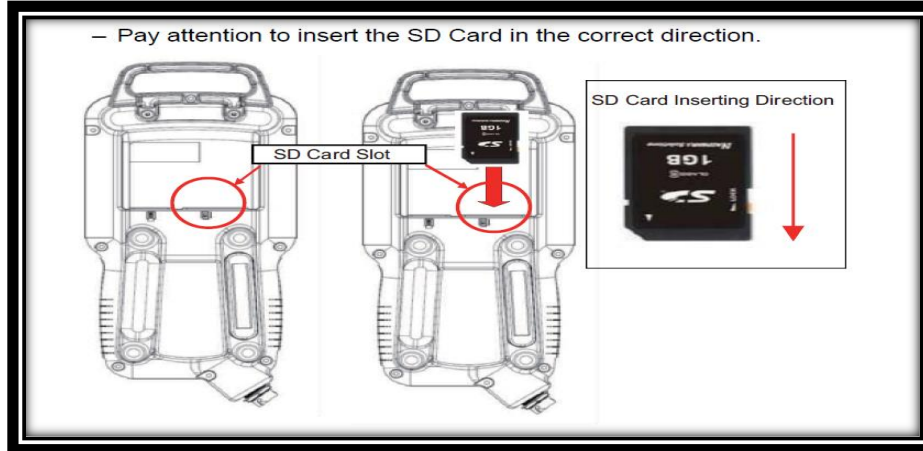
Upgrading Software on Your Controller

Introduction

As Yaskawa continues to make improvements or adjustments within the architecture of our products, some circumstances may require a controller software upgrade. One may notice slight changes to different menus or additional features after performing an upgrade. **Software upgrades are not available upon immediate request. Software for upgrades will only be supported if deemed necessary by the Yaskawa Technical Support or Partner Support teams.** One can perform this upgrade and be back into production within 15 minutes following the steps below. **<u>Always make sure to do a complete backup of the system before proceeding.</u>**

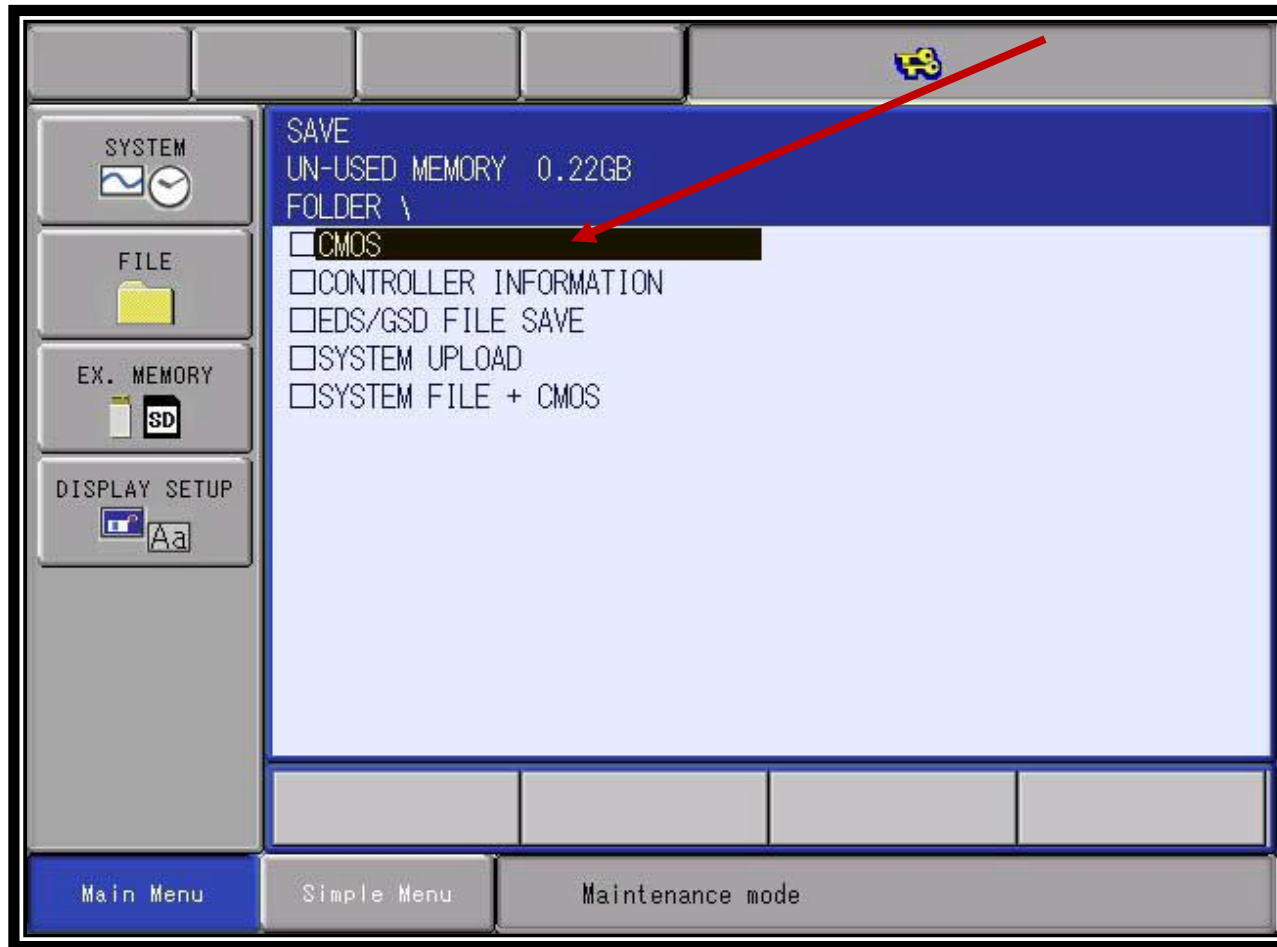## Procedure

1. Before starting <u>**make a complete backup including the CMOS.BIN file**</u> using a SD or USB drive.

2. <u>Backup current system to a SD or USB</u>

   ➢ Boot into MAINTENANCE mode. Hold [MAIN MENU] on the pendant while turning power on.
   ➢ Touch [SYSTEM] > [SECURITY] and select "MANAGEMENT MODE" (default password is 99999999)

➢ Touch [EX MEMORY] > [DEVICE]. Select USB or SD. Alternatively select each item and then press ENTER to back up.
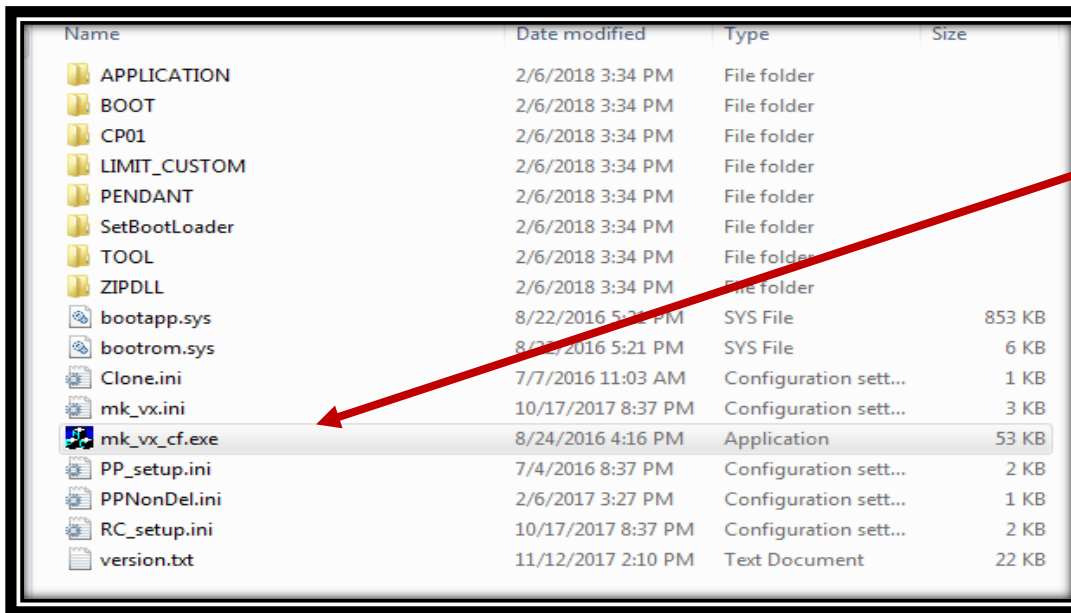

3. Upgrade system software

a. Download the software via the FTA link provided in a separate email. **Do not redistribute under any circumstance.**
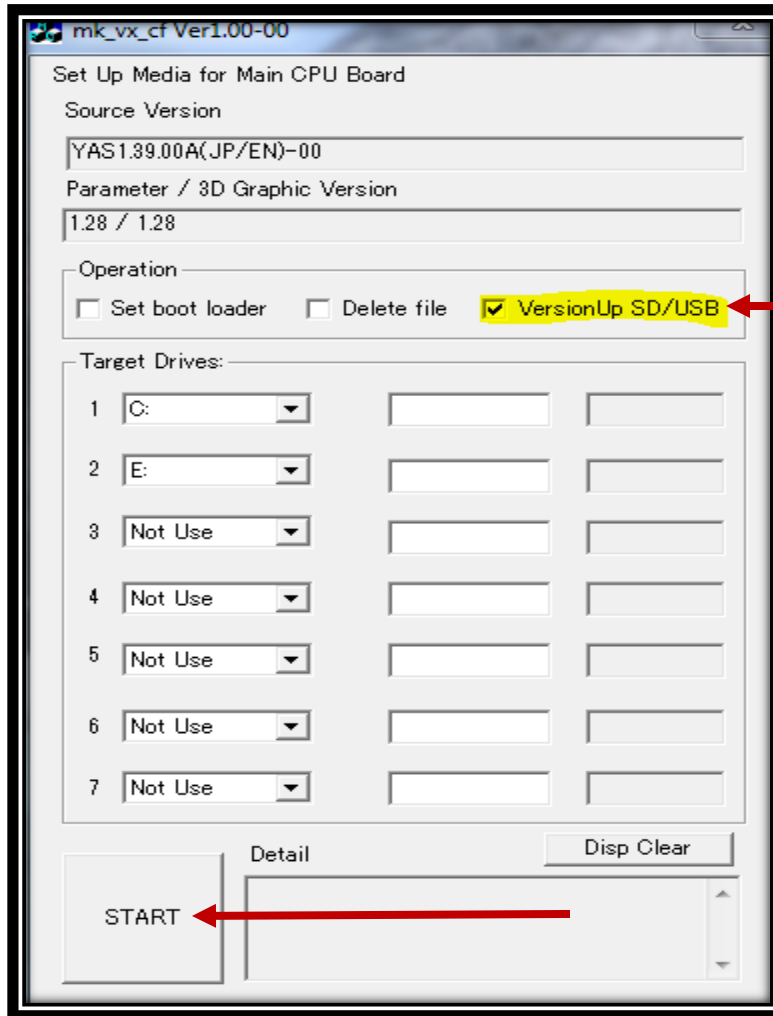
b. Create a folder called "Yaskawa software" on your desktop (or any folder you can easily identify).

c. Extract the zipped software folder you downloaded into the "Yaskawa software" folder (Or the folder you created above).

d. Insert either a USB or SD card into your PC. Note the drive which is assigned. Do not use the same storage device that was used for your backup. The backup should be kept in a safe place.

e. Open the extracted folder and locate the file "mk_vx_cf.exe" Double click the file

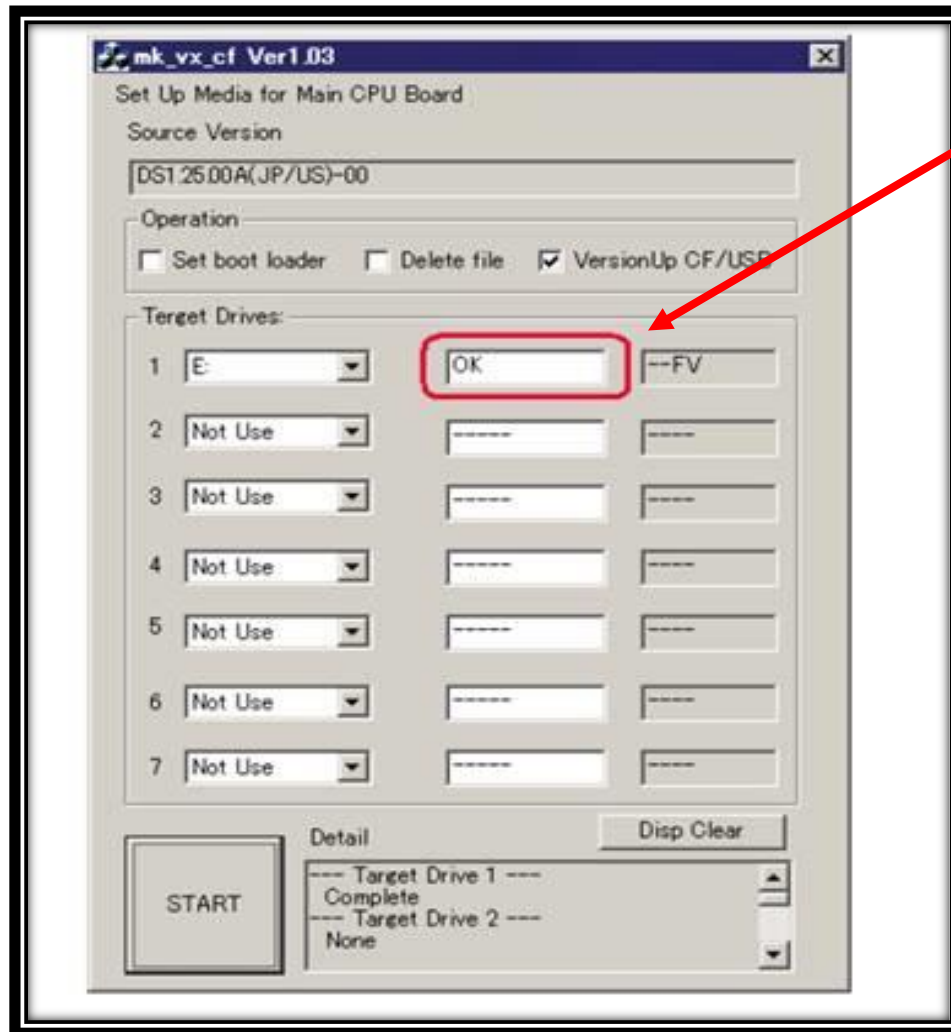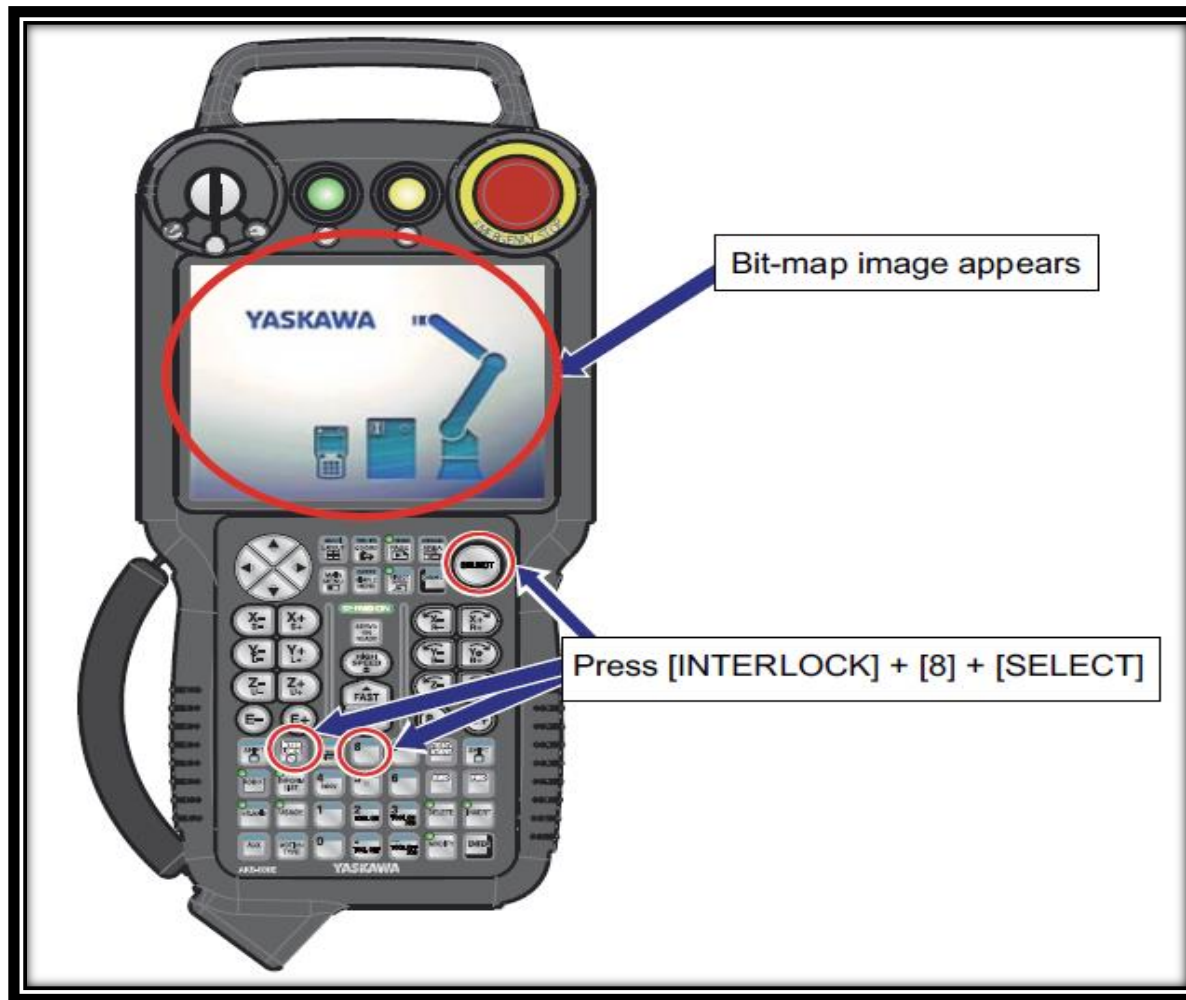| Name	Date modified	Type	Size
APPLICATION	2/6/2018 3:34 PM	File folder	
BOOT	2/6/2018 3:34 PM	File folder	
CP01	2/6/2018 3:34 PM	File folder	
LIMIT_CUSTOM	2/6/2018 3:34 PM	File folder	
PENDANT	2/6/2018 3:34 PM	File folder	
SetBootLoader	2/6/2018 3:34 PM	File folder	
TOOL	2/6/2018 3:34 PM	File folder	
ZIPDLL	2/6/2018 3:34 PM	File folder	
bootapp.sys	8/22/2016 5:21 PM	SYS File	853 KB
bootrom.sys	8/22/2016 5:21 PM	SYS File	6 KB
Clone.ini	7/7/2016 11:03 AM	Configuration sett...	1 KB
mk_vx.ini	10/17/2017 8:37 PM	Configuration sett...	3 KB
mk_vx_cf.exe	8/24/2016 4:16 PM	Application	53 KB
PP_setup.ini	7/4/2016 8:37 PM	Configuration sett...	2 KB
PPNonDel.ini	2/6/2017 3:27 PM	Configuration sett...	1 KB
RC_setup.ini	10/17/2017 8:37 PM	Configuration sett...	2 KB
version.txt	11/12/2017 2:10 PM	Text Document	22 KB

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f. Set the proper media as the target drive as mentioned above. **Make sure to set the remaining target drives to "Not Use".**

g. Click the box to choose version up SD/USB.

h. Click the start button in the lower left corner.

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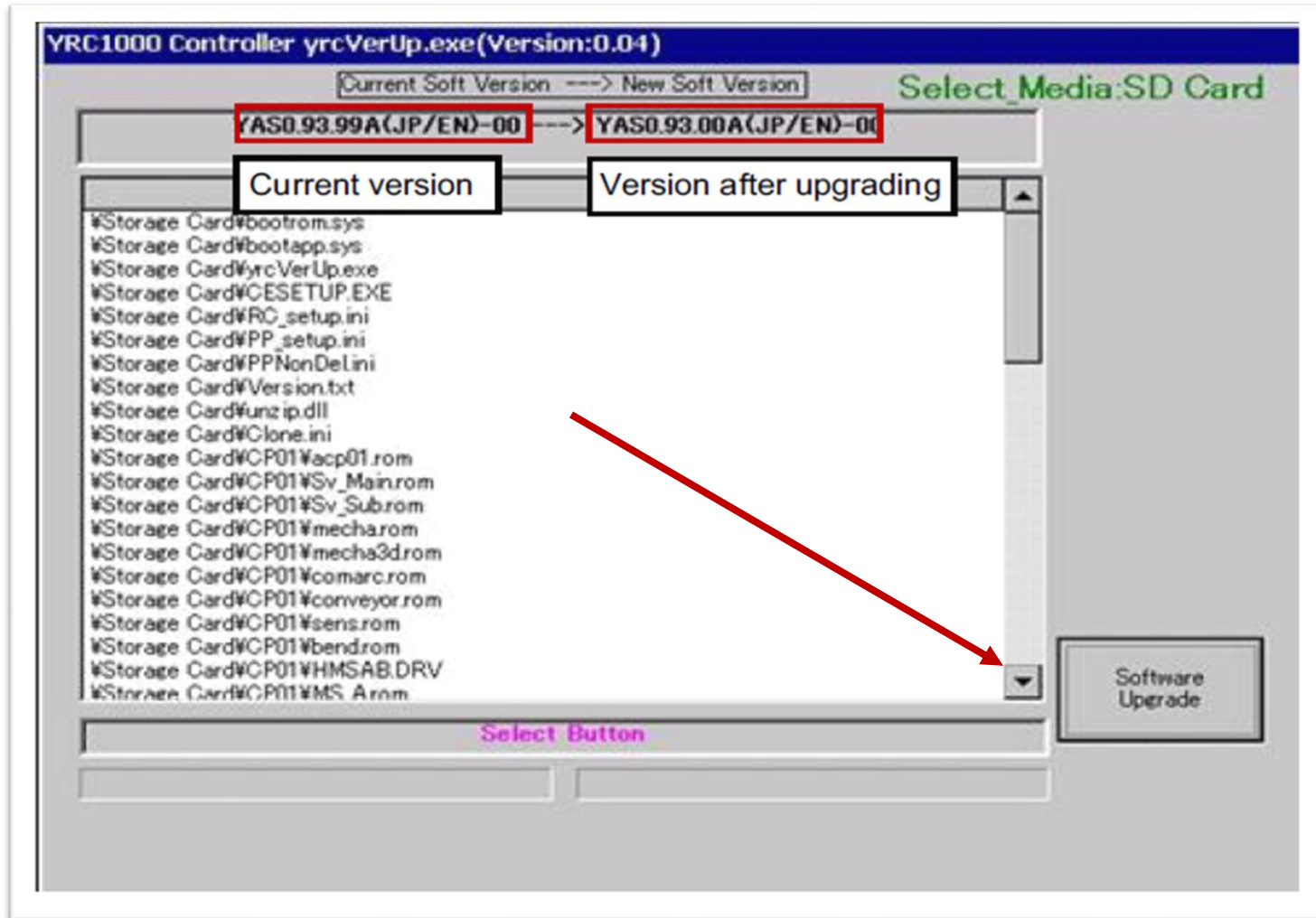*Shared Integration Experience*

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i. After the process is complete an indicator in the box will show it is complete. If this process takes more than about 2 minutes there could be a problem, such as the folder was not extracted in step 3.

j. Insert the media into the pendant. Make sure there is a card in only one slot of the pendant (SD or USB, not both).

k. Turn ON the main power of the YRC1000 while simultaneously pressing [Interlock]+[8]+[Select] as shown in the picture below. Continue to hold for 10 seconds after the controller turns on.
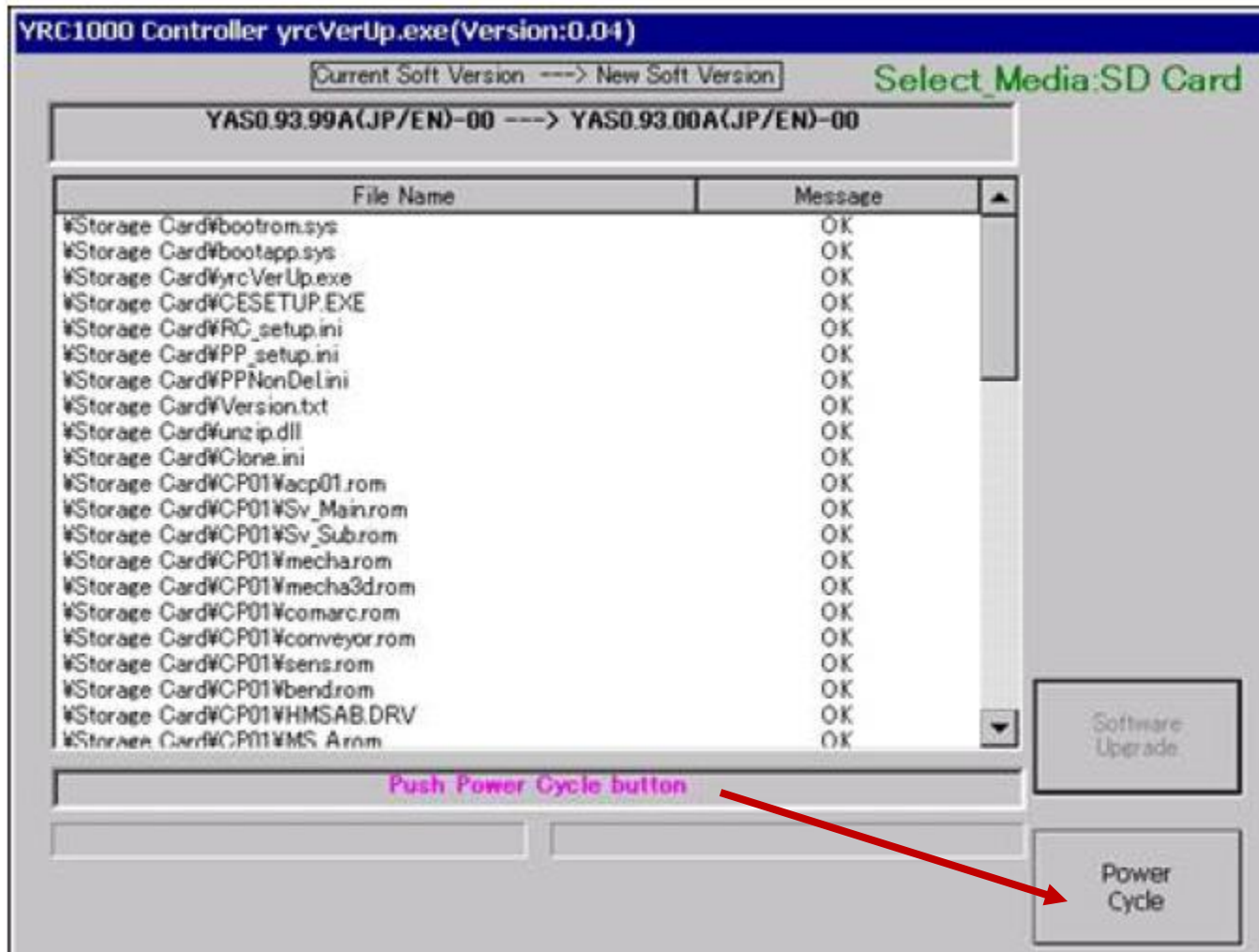
I. The following window will appear. Making sure you are upgrading to the right software revision select [Software Upgrade].

m. After several minutes, the software upgrade will complete. Press [Power cycle].

MAINTENANCE MODE ACTIVITIES

n. The controller will reboot into **[Maintenance Mode]** with several alarms. This is normal. If pendant screens are in Japanese instead of English, hold the SHIFT key on the pendant, while simultaneously pressing the AREA key at the upper right.

o. Upgrade security level to **[Safety].**

p. Go to **[System] – [Data Rebuild] – [Initialize Yes]**

q. If you receive Alarm 0300 Verify Error (SYSTEM CONFI-DATA) then go to **[FILE] – [Initialize] – [Safety Board Flash Reset]** Reboot controller normally and verify system is good.