

# YRC Micro Controller Software Upgrade Using Yaskawa Smart Pendant

## Note on USB drives for Yaskawa Upgrades

1. Avoid off brand low-price USB's – slower and may not work

## Tools required:

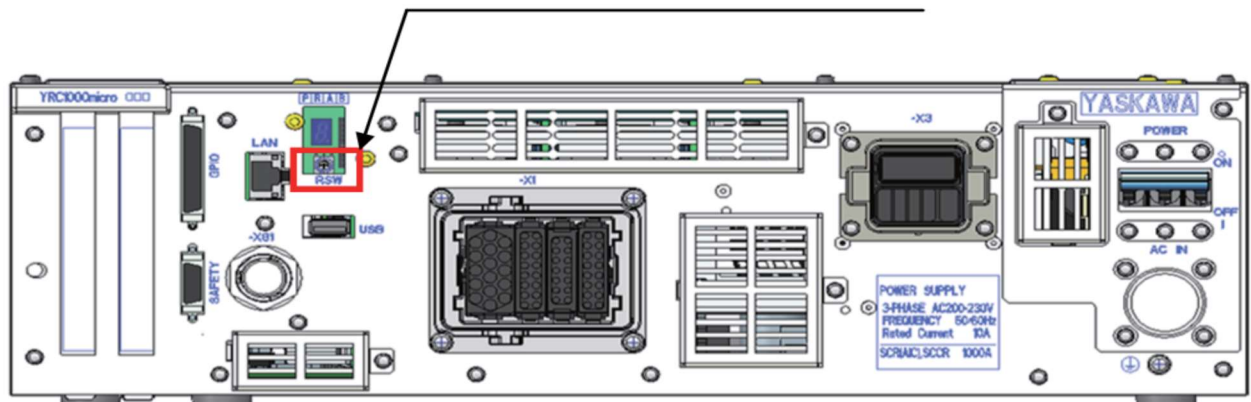
1. USB drive for YRC1000 micro system software upgrade
2. Small screwdriver 2-3mm for YRC1000 micro rotary switch

## Perform Complete Backup

1. Insert USB in to Smart Pendant
2. Select MENU / UTILITY / FILE TRANSFER
3. Select File Group All
4. Select Check Box next to Header "Name"
5. Select "COPY FILES FROM CONTROLLER" – Click Yes
6. **Verify Files are backed up** by checking USB on your PC. Insert USB in to your PC. Open USB drive folder and review the saved files.
7. **Power off** YRC1000 Micro Controller
8. **Disconnect Smart Pendant Cable** from the YRC1000 micro

## Upgrading Controller Software

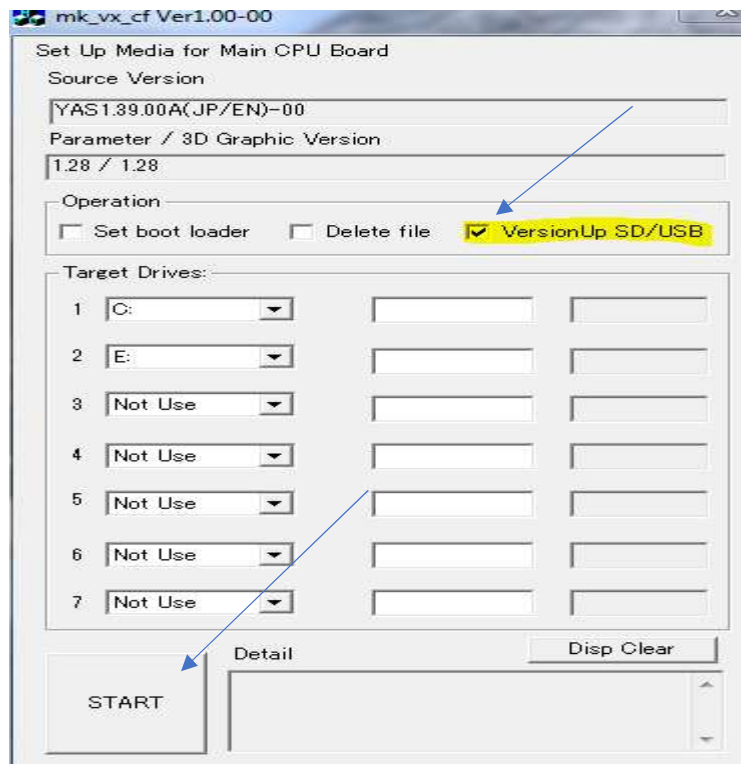
1. Set the **dial** on the Rotary Switch of the Controller from **0** to **5**.



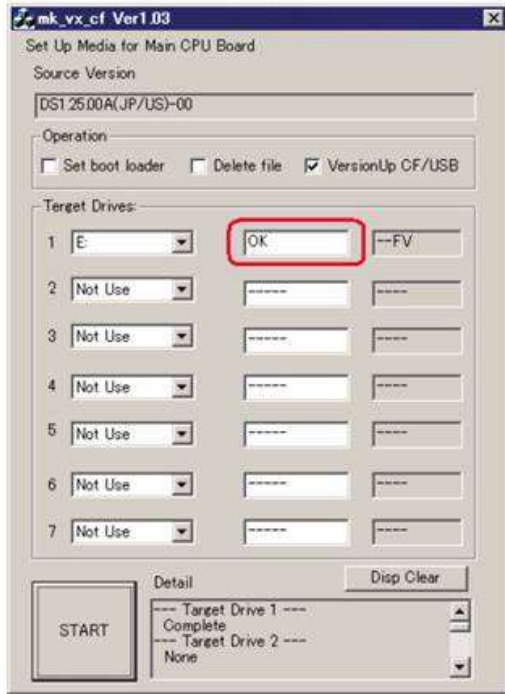
2. Download the new software at this link: <https://yaskawapartners.com/download/ycr1000micro-upgrade/>
3. Create a folder called Yaskawa software on your desktop (or any folder you can easily identify).
4. Extract the zipped software folder you downloaded into the Yaskawa software folder (Or the folder you created in step 2).
5. Insert a USB into your PC. Note the drive which is assigned to that USB.
6. Open the extracted folder and locate the file "mk\_vx\_cf.exe" Double click the file. (As shown below.)

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

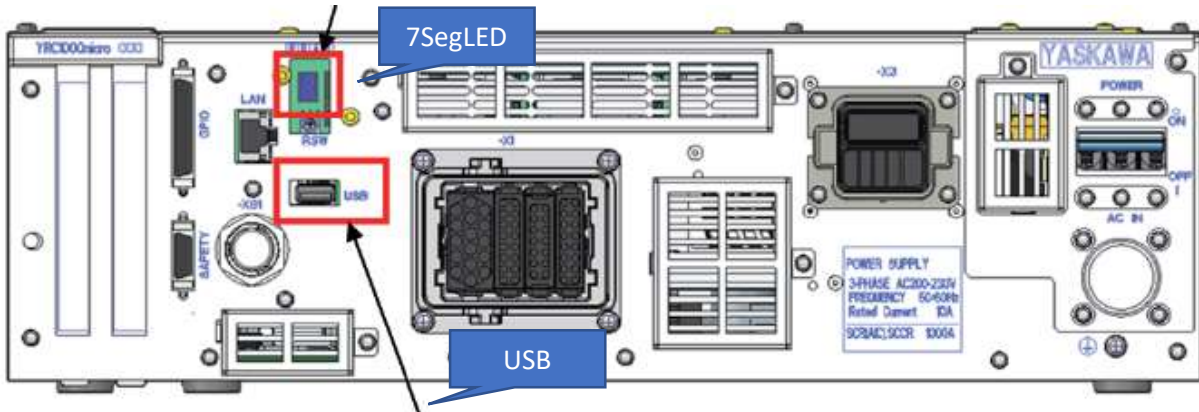
- Set the proper media as the target drive as mentioned in step 5. **Make sure to set the remaining target drives to "Not Use"**. Click the box to choose version up **SD/USB**. Then Press **START**



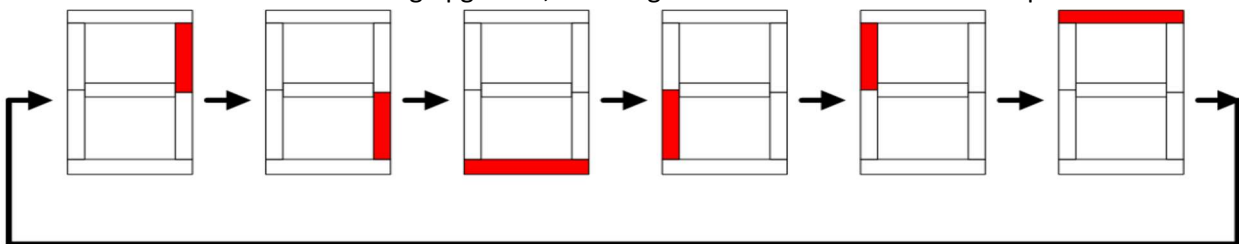
- Wait until OK appears for the drive selected. (As shown below.)



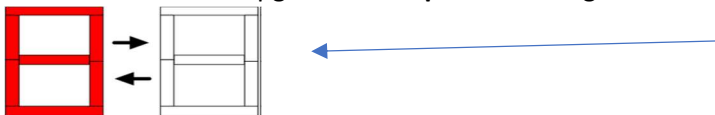
9. Insert the USB media into the controller, then turn power back on.



10. While the software is being upgraded, the 7SegLED indicator should follow sequence.



11. When the software upgrade is **complete** the 7SegLED indicator will **blink** every second.



12. Power off controller. Remove upgrade USB from the controller. Return the **Rotary Switch** from 5 to 0.  
**\*Note: if the controller LED is reading "E.0.0.0.1"- the USB is not recognized. Verify the file is loaded. If the error is still present the USB brand/type may not be recognized by the controller.**
13. **Reconnect Smart Pendant** to the YRC1000 micro controller and turn on power to the controller.
14. If you have alarms upon bootup, please follow next steps. If no alarms, disconnect from Software Pendant you are good to go with using the Smart Pendant.
15. **With your PC, log into Software Pendant and go into maintenance mode. (Information on downloading, installing, and using the Software Pendant is available in Section 12 of the document at this link: <https://www.motoman.com/getmedia/B0793234-D85A-478B-B17C-6456372EA2DB/184775-1cd>**
16. Once in **Maintenance mode** log into **Management mode**. Select **System** Icon and select **Data Rebuild** icon. Select **Yes/Enter**.
17. Disconnect soft pendant and use Smart Pendant.