How to restore ROBOT_ACTIVATION and SYSMAST.SV files

Overview:

This procedure requires a physical teach pendant since you will need to do a controlled start. You will also need a previous working MD backup instance of the robot located on a USB.

- Perform Controlled Start
- Restore SYSMAST.SV and ROBOT_ACTIVATION.STM files
- Apply DCS params
- Reset pulsecoder alarms

Perform a controlled start

To perform a controlled start, do the following:

- 1. Turn off FANUC robot control box.
- 2. On the teach pendant, press and hold [PREV] and [NEXT] keys
- 3. While still holding [PREV] and [NEXT], turn on the robot control box.
- 4. Keep holding the keys until you enter the configuration menu.
- 5. Press option 3 when in the configuration menu. Wait for pendant to complete boot up process.

The configuration menu looks like this.

Press option 3 to perform a controlled start.



You will know you've successfully performed a controlled start when the pendant reboots and shows this screen:



Restore SYSMAST.SV and ROBOT ACTIVATION.STM

After performing a controlled start, you will be able to restore SYSMAST.SV and ROBOT_ACTIVATION.STM. This step requires you do the following:

- Plug USB into control door
- Set UD1 as device
- Restore SYSMAST.SV and ROBOT ACTIVATION.STM
- Perform Cold start

Plug USB into control door

Plug the USB with the robot MD backup into the USB port located on the control box's door.



Set UD1 as device

You will need to set the device you want the pendant is searching files through to the USB plugged into the control box door. To do this, do the following:

- 1. Navigate to the FILE page (Press [MENU] > [5] File).
- 2. While in the FILE page, press [F5] Util > [1] Set Device > [6] USB Disk (UD1:).

You will know you successfully set the device to UD1 if you see the this on the top left of the screen.



Restore SYSTMAST.SV and ROBOT_ACTIVATION.STM

Do the following steps to restore the 2 files:

1. After setting UD1 as the device we're searching through, select all files to view all files in the USB.



- 2. Navigate to the folder containing the robot MD backup. Press [ENTER] to view contents inside that folder.
- 3. Search for ROBOT_ACTIVATION.STM inside the robot MD backup folder. Highlight that file and press [F3] Load > [F4] Yes to load the file.

Note: you might need to press [F4] again to confirm the second question.

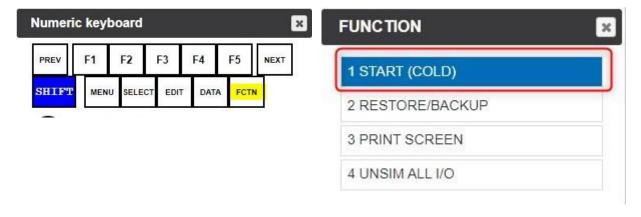


4. Repeat Step 3 for the SYSMAST.SV file.



Perform cold start.

To perform a cold start, press [FCTN] > [1] Start (Cold). Wait for the control to reboot itself.



Apply DCS Params

After loading SYSMAST.SV file, you will need to reapply DCS params. To do this, do the following:

- 1. Navigate to the SYSTEM page (press [MENU] > [0] -- NEXT -- > [6] SYSTEM).
- 2. Go to the DCS page (press [F1] Type > [9] DCS)
- 3. Press [F2] Apply > type 1111 > [F4] Ok to apply the params.
- 4. When prompted, Cycle power on the robot control box.

Reset Pulsecoder Alarms

After reloading the SYSMAST.SV, you will need to clear the pulsecoder alarms. These alarms will not be cleared on a RESET PRESS. You will need to do the following:

- 1. Navigate to the SYSTEM page (press [MENU] > [0] -- NEXT -- > [6] SYSTEM).
- 2. Go to the Master/Cal page (press [F1] Type > [3] Master/Cal)
- Clear the pulsecoder alarms (press [F3] RES_PCA > [F4] Yes)
- 4. Press [RESET] to clear the alarms. You should be able to clear the alarms at this point.