

# RAMTEC



**FANUC**

## LRMate CERT Cart Demo Procedures

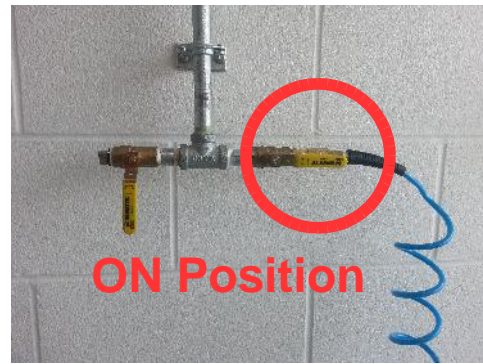
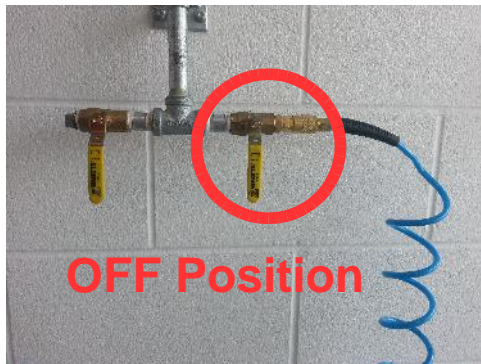


# To start the LRMate Demo:

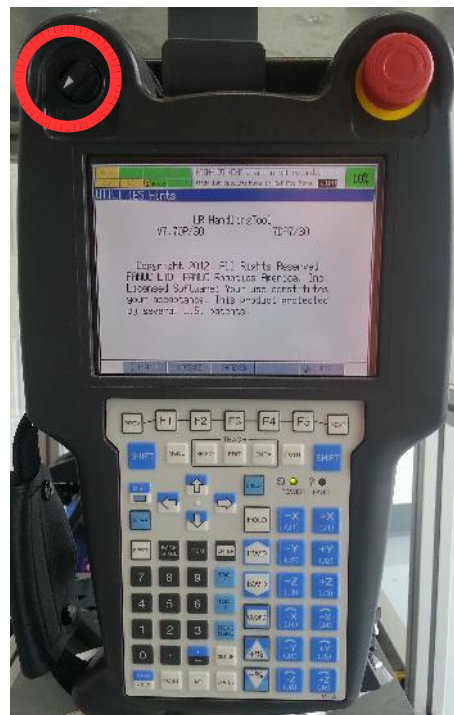
- 1) Turn on the power on the Robot Controller located on the bottom of the Cart



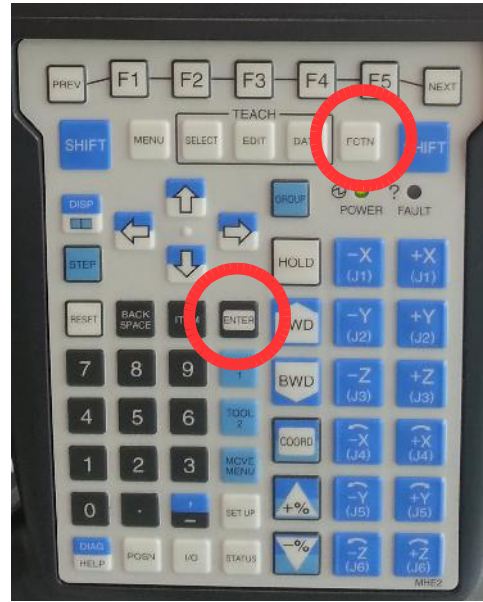
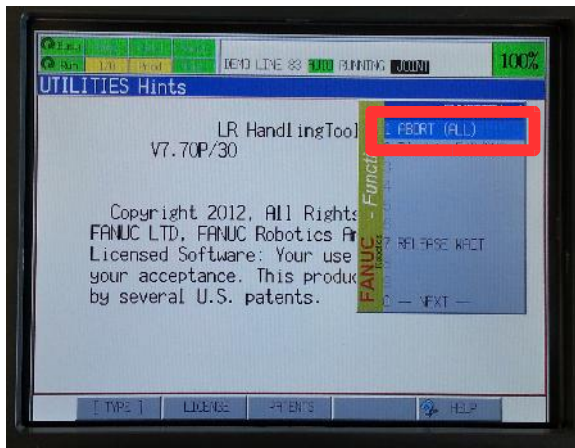
- 2) Turn on the air supply located on the wall



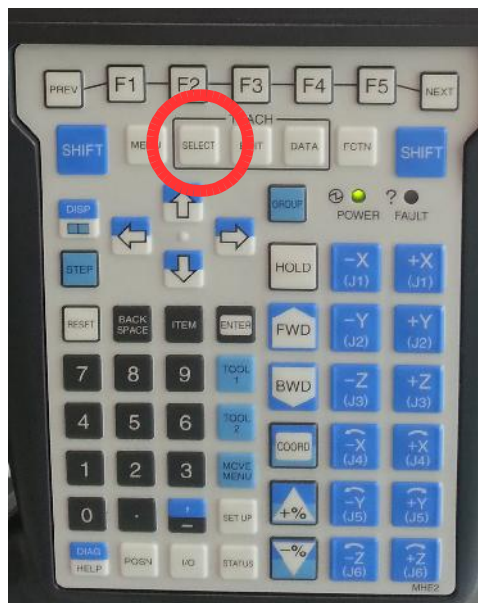
- 3) Once the Teach Pendant is booted up to the home screen, verify that the Teach Pendant is in the **ON** position and the Robot Controller is in **T1** mode



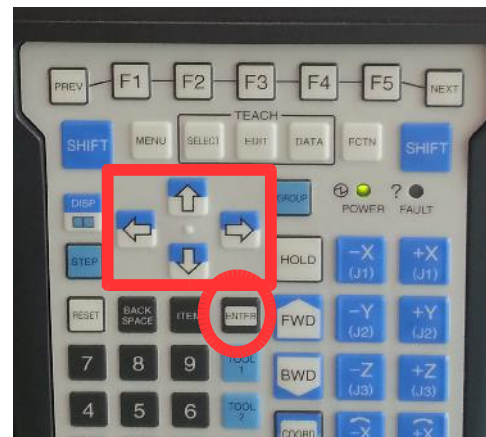
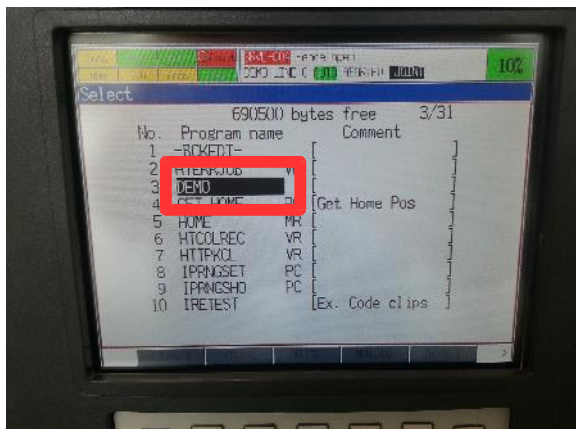
- 4) Press the **FCTN** button on the Teach Pendant, select **ABORT (ALL)** and press the **ENTER** button



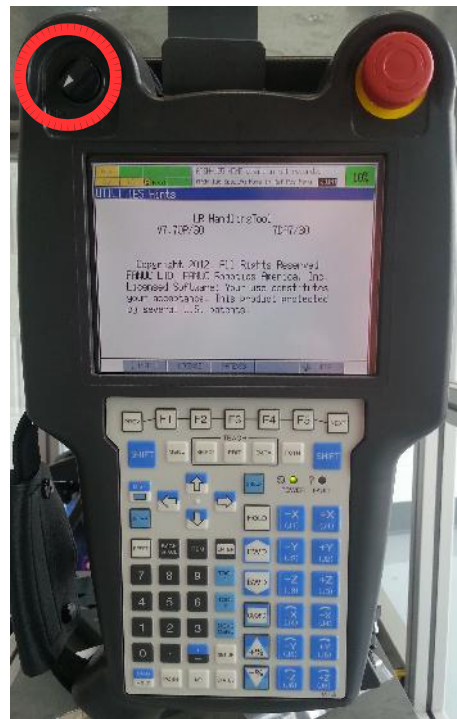
- 5) Press the **SELECT** button on the Teach Pendant



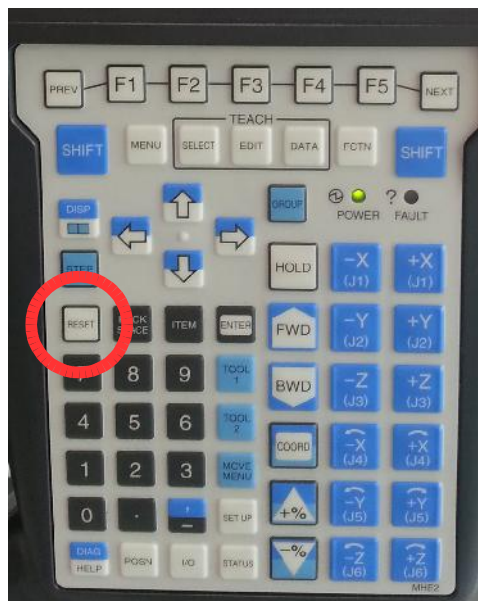
- 6) Using the arrows on the Teach Pendant, navigate to **DEMO** and press the **ENTER** button



7) Turn **OFF** the Teach Pendant and put the Robot Controller in **AUTO** mode



8) Press the **RESET** button on the Teach Pendant

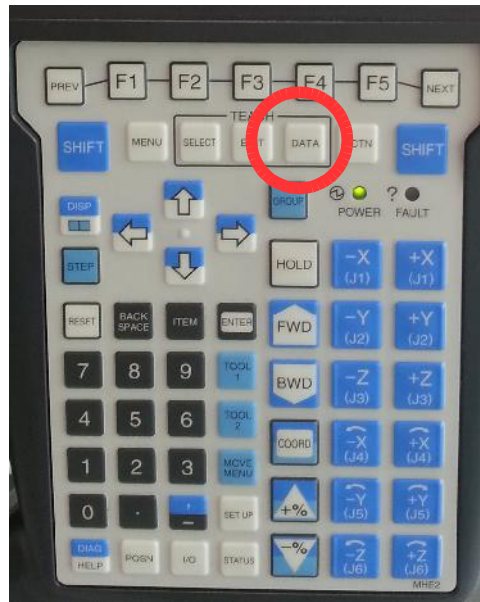


9) Press the green **CYCLE START** button on the Robot Controller, the Robot should start its cycle

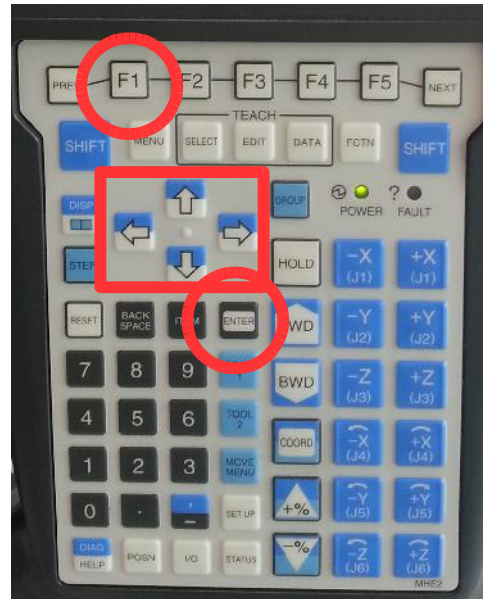
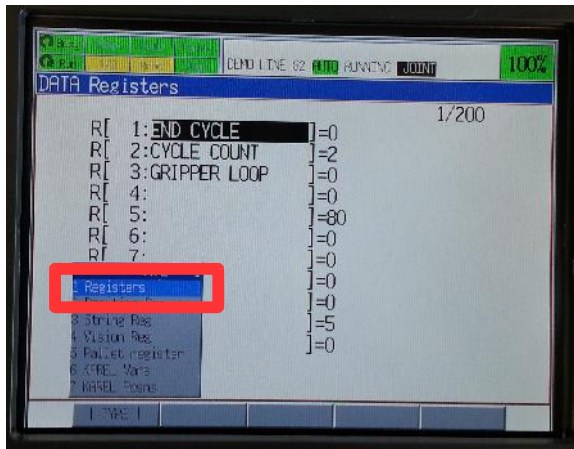


# To stop the LRMate Demo:

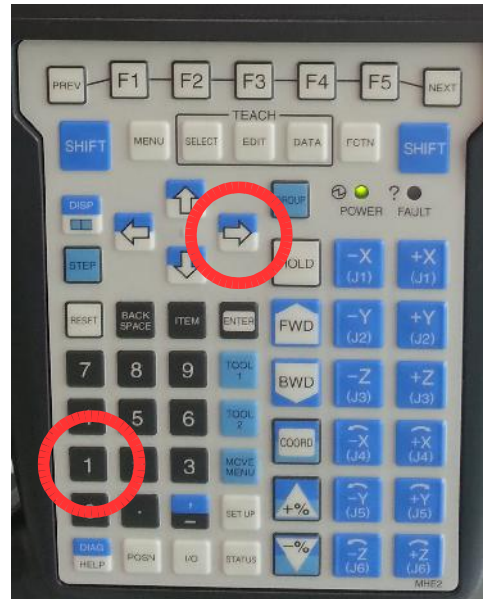
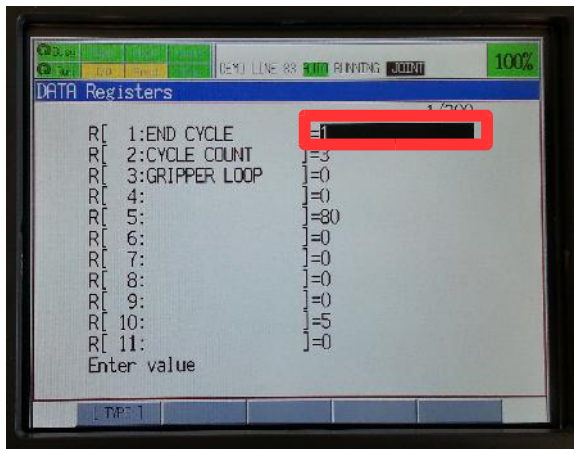
- 1) Press the **DATA** button on the Teach Pendant



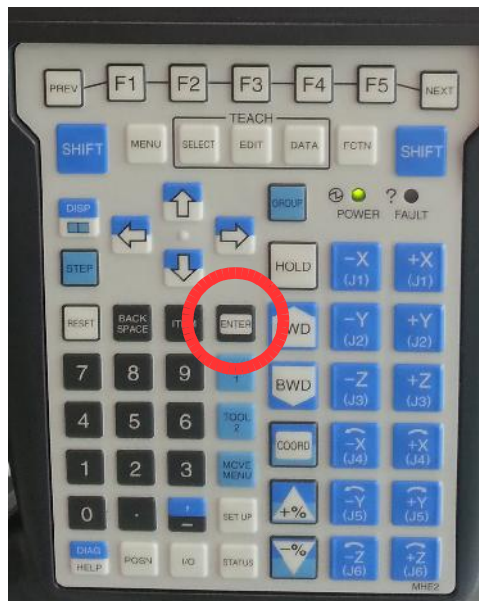
- 2) Press **F1** button for Type, using the arrows, select **REGISTER** and press the **ENTER** button



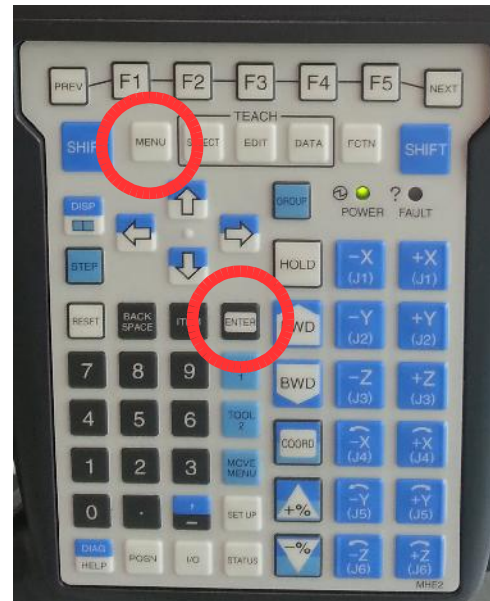
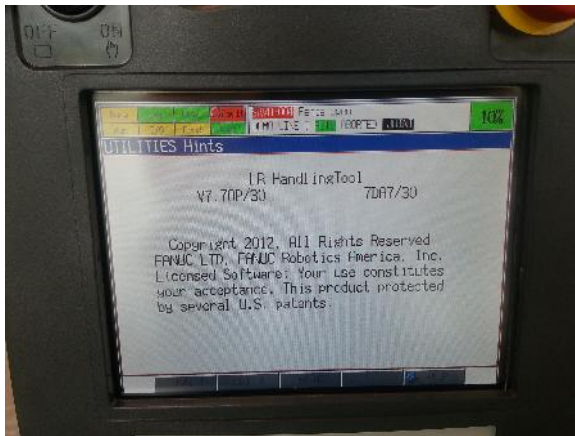
- 3) On **END CYCLE** line, arrow to the right and highlight with the black box the **0**, change the **0** to a **1** by pressing the **1** button on the Teach Pendant



- 4) Press the **ENTER** button on the Teach Pendant, this will tell the Robot that once the Cycle has completed to Stop (**The Robot will not stop right away**)



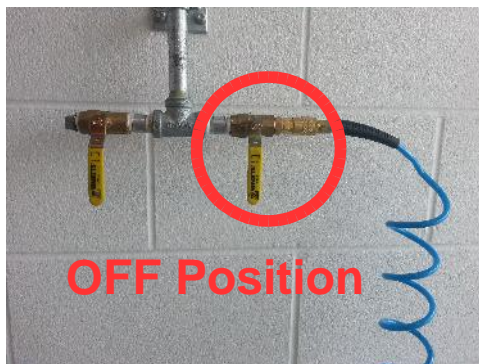
- 5) Press the **MENU** button on the Teach Pendant, then press the **ENTER** button, this will return the Teach Pendant back to the home screen



- 6) Once the cycle has completed, it is not safe to power down the Robot Controller



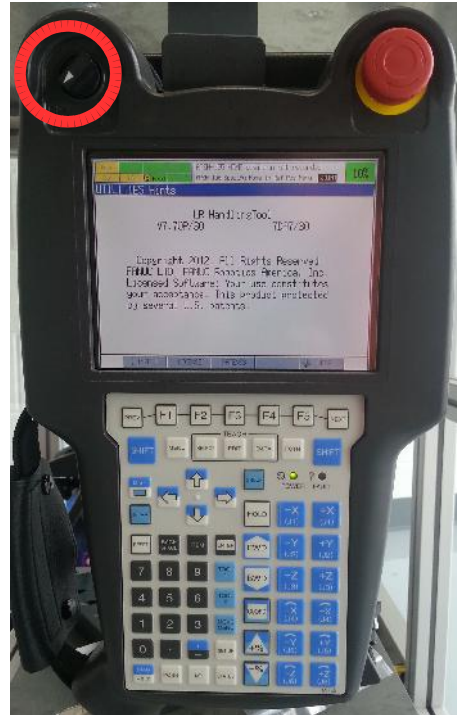
- 7) Turn off the air supply located on the wall



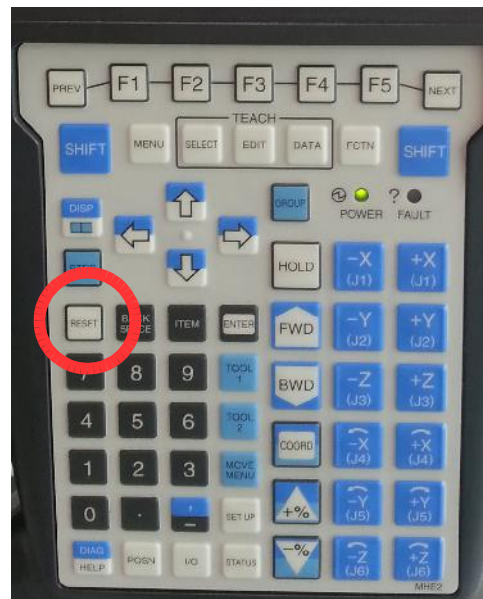


## To jog the Robot:

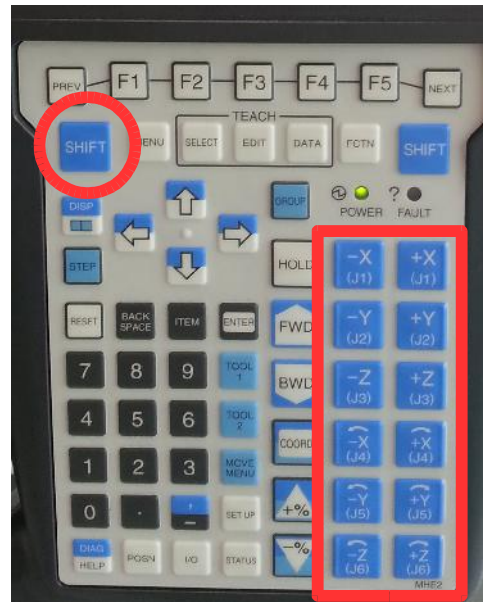
- 1) Verify that the Robot is not running a Program, if it is, follow the instructions on how to stop the Robot
- 2) Put the Robot Controller into T1 mode and turn **ON** the Teach Pendant



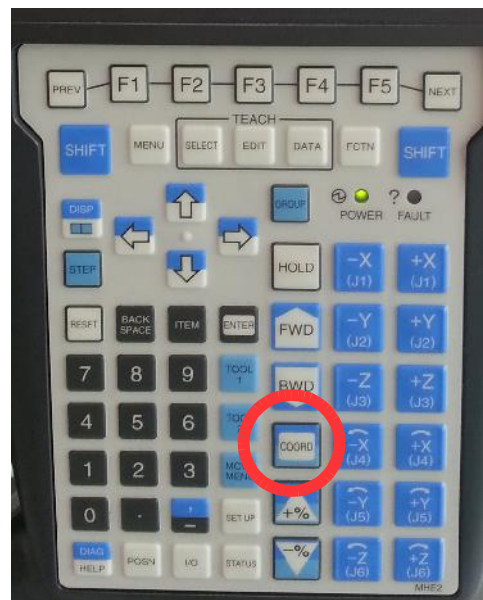
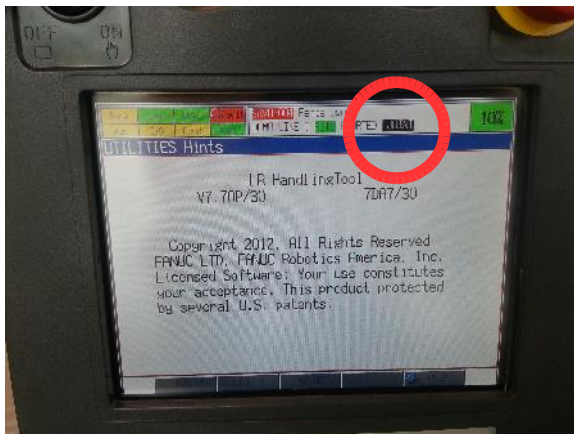
- 3) While holding in the **DEADMAN** switch on the back of the Teach Pendant, press the **RESET** button (**NOTE: Be sure to always hold in the DEADMAN switch on the back of the Teach Pendant unless you need to immediately stop the robot, this switch acts as an emergency stop button**)



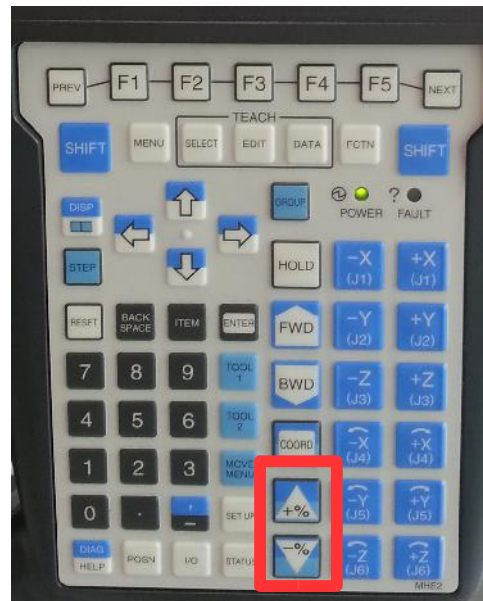
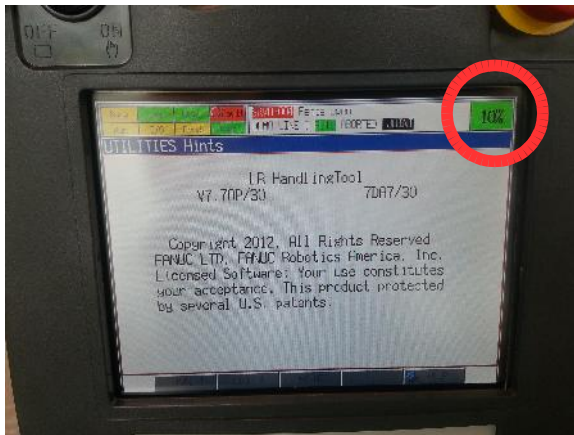
- 4) While holding in the **DEADMAN** switch and holding down the **SHIFT** button, the Robot can be jogged by using the 12 blue buttons on the right side of the Teach Pendant (the **+X, -X, +Y, -Y, +Z, -Z** buttons)



- 5) To change jog modes (**JOINT, JGFRM, WORLD, TOOL, USER**), press the **COORD** button on the Teach Pendant to cycle through the different modes, the mode is indicated in the top-right side of the display screen



- 6) To speed up or down the Robot, press the **+%** or **-%** buttons on the Teach Pendant, the speed of the Robot is indicated at the top-right corner of the Teach Pendant display screen in a green box



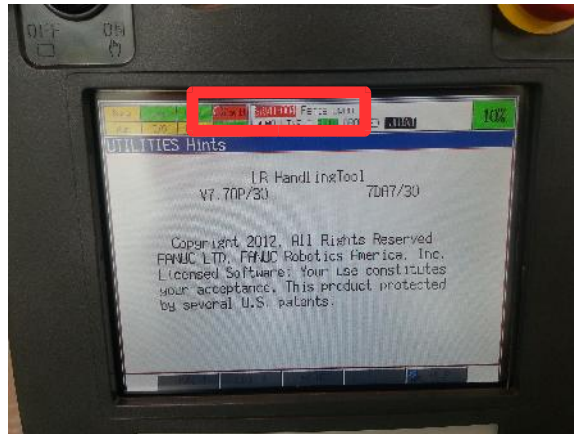
- 7) Once finished jogging, release the **DEADMAN** switch to stop all Robot movement



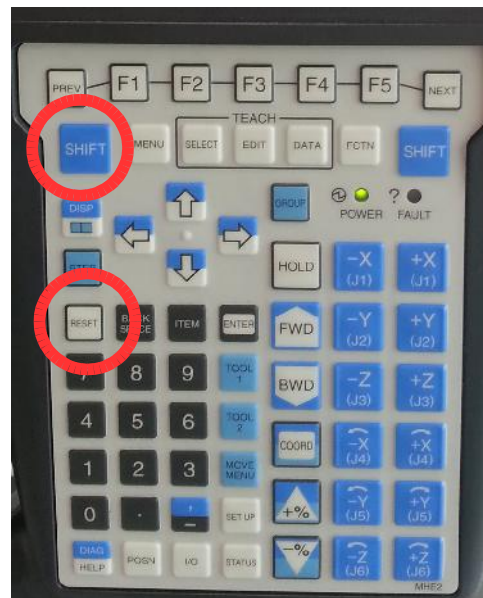
## To clear a DCS Fault:

A DCS fault occurs when the Robot is jogged outside of its safety zone. The DCS puts limits on the Robot so that it cannot hit the glass or itself.

- 1) If the Robot is jogged outside of its DCS zone, it will fault out. The word **FAULT** on the display will turn red and it will indicate what the fault is (Example Fault.: **SRVO-xxx DCS Cart. Pos. limit (x,xx,xx) 1**)



- 2) While holding in the **DEADMAN** switch and holding down the **SHIFT** button, press the **RESET** button, the word **FAULT** on the display screen will turn green



- 3) Jog the Robot back into its DCS zone by moving in the opposite direction that caused the fault to occur, the Robot is now back into jogging mode