

Updating the Driver Station software and Team Number.

To Update DS Software:

The Driver Station software is updated via the USB ports. The process is semi-automated and is started by a particular LCD button sequence with the USB memory stick inserted into any USB port on the DS. The image that is uploaded onto the Driver Station must be called DSUD_PKG.BIN on the memory stick and may not be a link but must be the named file. The updater software on the DS will check for the correctly named file and size.

To start the update process, follow these steps:

1. Insert the USB memory stick into a USB port on the Driver Station
2. Simultaneously hold the UP button (leftmost) and the DOWN button (center).
Waiting for the LCD Display to prompt for release of the buttons (approximately 8secs) for the next step in the update button sequence.
3. Hold the UP button (leftmost) down until the display prompts the user to release it.
4. When the display prompts the user to hold the DOWN button (center) do so until the display prompts the user to release it.
5. Wait for the display to prompt the user to hold the SELECT button (rightmost) down. Hold the button until the display gives the “DO NOT SHUT OFF! ...” prompt.
6. Do not shut off the DS and leave the USB memory stick in place until after the system reboots. NOTE: It will be necessary to reset the Team ID after updating the software.
7. If the Driver Station does not display the warning message but instead drops out to the normal status display this is due to any number of issues. (Please see section 3.1.8)
8. REMEMBER to reset the Team ID afterwards!!

To Set Team Number:

The team number is stored on the driver station and is used to generate the IP addresses for the Driver Station and the Robot. In order to set or change the Team ID on the Driver Station the following sequence is used:

1. Hold the DOWN button (center button under the LCD Display) wait for over 5 seconds until the LCD Display changes. It should read “SET TEAM NUMBER” with the current number displayed.
2. Use the UP button (leftmost) to increment the current highlighted digit to desired number. Holding this button will continue to increment up to the number Nine and then it rolls over back to Zero. There is no going back only counting up.
3. To move to the next digit for setting, hold the Down button until the desired digit is highlighted. Note: It is not necessary to set every digit if they are currently correct, only changes to the numbers must be done. The case of team #1 is only the rightmost digit must be set.
4. To cause the new Team ID to be stored, push and hold the SELECT button (rightmost) until the LCD screen changes and indicates updating. Note: The Driver Station will reboot after this point.