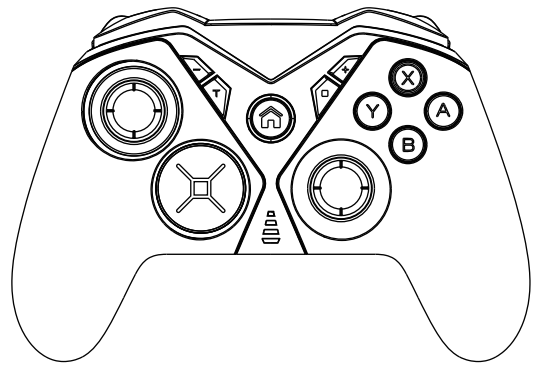


# User Manual-S900

Wireless Controller



Please read this manual carefully before using it

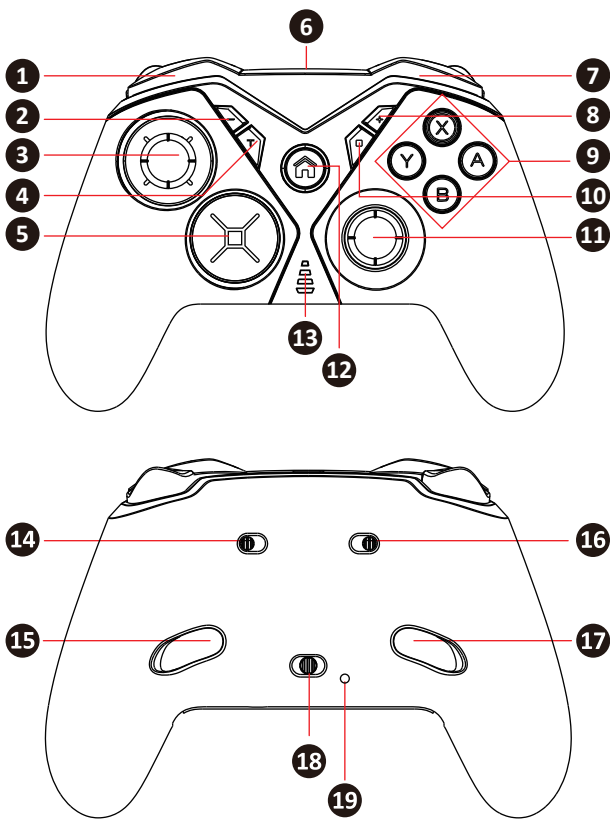
## Product Introduction:

The S900 Switch Controller is an enhanced Pro Controller for the Switch gaming console. Providing all of the normal functionality you would expect from an Switch Pro Controller, the S900 also features a Turbo button so you can preset your buttons to turbo fire, making it great for repetitive tasks or games that require button mashing. With three additional rear mapping buttons that can map up to 22 key inputs, this controller can help you get to the next level. Making the S900 ideal for console players from both sides of the fence, this controller also has an innovative feature allowing you to swap locations of the D-pad and left joystick. Made from a tough ABS material, the S900 is durable and designed to last. It comes with a six-axis gyroscope and built-in acceleration functions to give you that competitive edge.

## Package Includes

1 x Switch Controller  
1 x USB Charging Cable  
1 x User Manual

## Product Overview



- 2 -

- |                              |                                |
|------------------------------|--------------------------------|
| 1. L1 / L2 Buttons           | 11. Right Joystick / R3 Button |
| 2. - Button                  | 12. Home Button                |
| 3. Left Joystick / L3 Button | 13. Player Indicator LEDs      |
| 4. Turbo Button              | 14. R2 Trigger Lock            |
| 5. D-pad                     | 15. N1 / N2 Buttons            |
| 6. USB Type-C Port           | 16. L2 Trigger Lock            |
| 7. R1 / R2 Button            | 17. M1 / M2 Buttons            |
| 8. + Button                  | 18. Rear Button Mapping Switch |
| 9. X / Y / A / B Buttons     | 19. Reset Cavity               |
| 10. Screenshot Button        |                                |

## Specifications

**Power Input:** DC 5V/500mA

**Charging Time:** Approximately 3 hours

**Playtime:** 6-8 hours

**Battery Capacity:** 650mAh

**Wireless Connection Maximum Distance:** 26.24ft

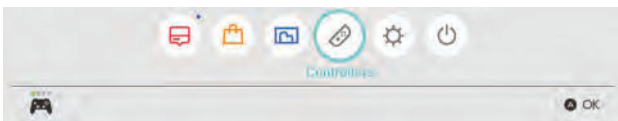
## Wireless Connection Setup:

### For Switch Console

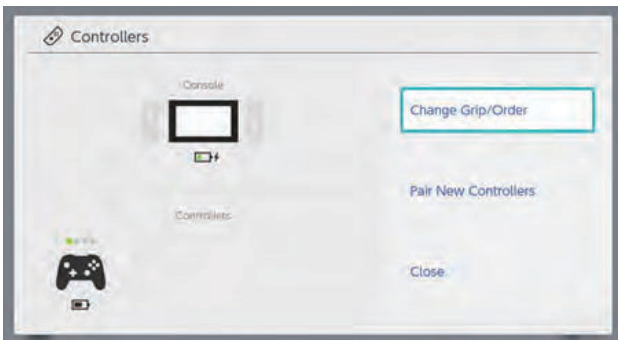
1. Make sure that the console and the controller you want to pair are both powered on. From the

- 3 -

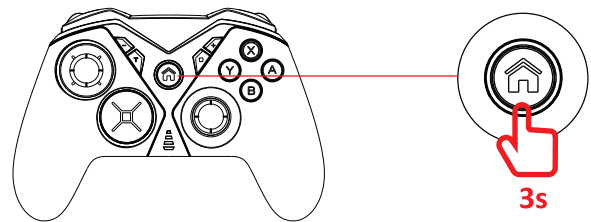
home menu in the Switch console select **Controllers** as shown below.



2. Select **Change Grip/Order** on the **Controllers** menu page as shown below.



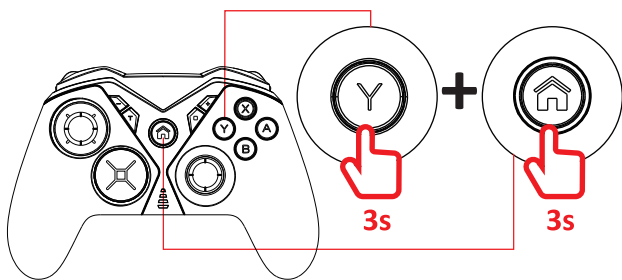
3. Press and hold the **Home** button for three seconds until the **Player Indicator LEDs** flash alternately from slowly to quickly to show that the controller is in pairing mode.



4. The controller will then connect to the system, and the **Player Indicator LEDs** on the controller will stop flashing indicating that the pairing was successful. Then the appropriate **Player Indicator LED** will illuminate indicating what position the controller is in. The pairing process is now complete. We recommend now calibrating your joysticks if this is the first time you are connecting this device. Instructions on how to do this are located in the FAQ section.

#### For Android Devices

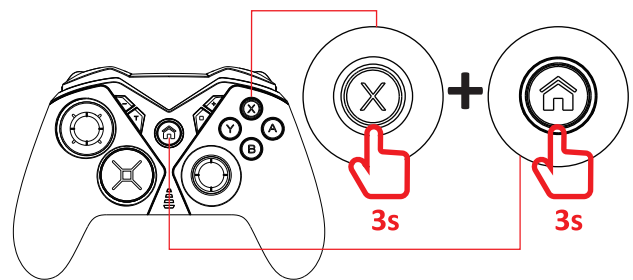
1. Press and hold the **Y** button and the **Home** button at the same time for three seconds until the 2nd and the 3rd **Player Indicator LEDs** flash quickly to show that the controller is in Android pairing mode.



2. On an Android phone, tablet, or Android smart TV, enter: **Settings > Wireless**, and select **"S900"** from the list of available devices.
3. The 2nd and the 3rd **Player Indicator LEDs** will remain permanently lit once the pairing is successful. We recommend now calibrating your joysticks if this is the first time you are connecting this device. Instructions on how to do this are located in the FAQ section.

### For iOS Devices

1. Press and hold the **X** button and the **Home** button at the same time for three seconds until the 1st and the 4th **Player Indicator LEDs** flash quickly to show that the controller is in iOS pairing mode.



2. On an iPhone/iPad, enter **Settings > Wireless**, and select **"Xbox Wireless Controller"** from the list of available devices.
3. The 1st and the 4th **Player Indicator LEDs** will remain permanently lit once the pairing is successful. We recommend now calibrating your joysticks if this is the first time you are connecting this device. Instructions on how to do this are located in the FAQ section.

### To Reconnect

1. Press and hold the **Home** button for one second to wake up the controller.
2. After being woken up the controller will automatically connect to the device it was last paired with.

**Note:** If you reset the controller to factory settings or update the firmware you will need to re-pair the controller with the console as outlined in these steps.

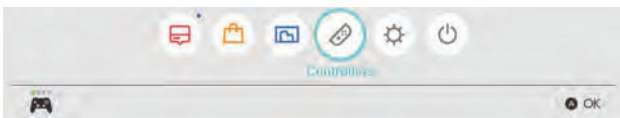
### **To Disconnect**

Press and hold the **Home** button for five seconds. The controller will unpair from your device.

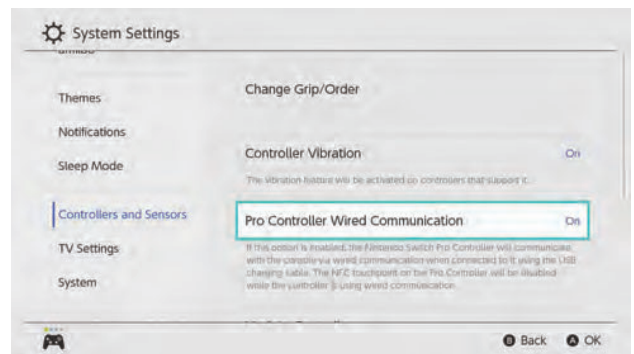
### **Wired Connection Setup:**

#### **For Switch Console:**

1. Make sure that the console and the controller you want to pair are both powered on. From the home menu in the Switch console select **Controllers** as shown below.



2. Set **Pro Controller Wired Communication** to **On**.



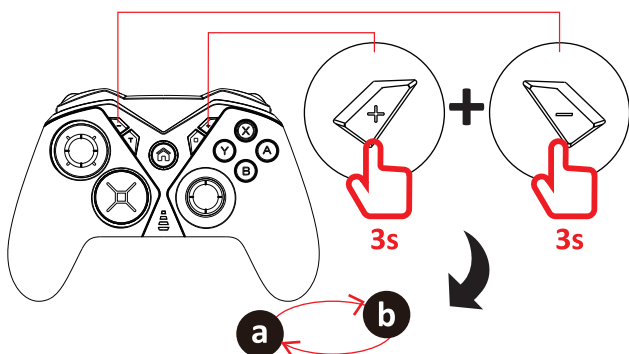
3. Connect the controller to the dock with the provided USB cable and place the Switch console in the dock. Then press any button to wake up the controller.



4. The **Player Indicator LEDs** on the controller will flash indicating that the pairing was successful and then the appropriate **Player Indicator LED** will illuminate. Pairing is now complete.

### For Windows PCs

1. Use the provided cable to connect the controller to your device.
2. There are two different modes that can be used for wired connections. You can switch between them by pressing and holding the **+** and **-** keys at the same time for three seconds.



- a. **DirectInput mode** is the default mode for connecting to a PC. When using this mode, the 2nd and 3rd player LED lights will remain

- 10 -

permanently lit indicating this is the active mode.

- b. **XInput mode** is an alternate, more recent, mode for connecting devices with a PC. This mode can be used if you find controller limitations in a game while using DirectInput mode. When using this mode the 1st and 4th LED lights will remain permanently lit indicating this is the active mode.

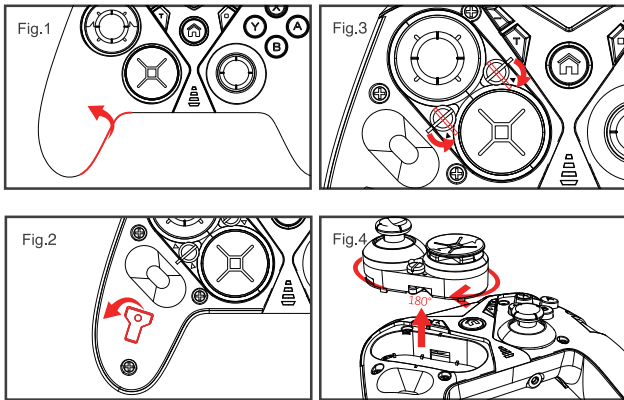
3. After switching to a wired connection, the wireless connection will automatically disconnect.
4. After unplugging the wired connection, the controller will automatically attempt to reconnect to the last paired device via wireless.
5. Using the controller with a PC will allow the controller to charge while connected; the Switch does not charge the controller.

### **D-pad and Left Joystick Swap Instructions:**

1. Pry off the left grip front cover gently as indicated below.
2. Take out the magnetic key underneath the cover.
3. Use the key to rotate both latches in the directions as shown in the image.

- 11 -

4. Take out the **D-pad** and **Left Joystick** module and swap the alignment.
5. Use the key to lock the new alignment into place, return the key to the notch, and replace the left cover firmly.



### X / Y and A / B Button Swap Instructions:

1. Press and hold the **Turbo** button and the **R3** button at the same time for three seconds.
2. The **X** button and the **Y** button will now swap roles internally. The **A** button and the **B** button will do the same.

- 12 -

3. To restore the **X / Y / A / B** button functions to default, press and hold the **Turbo** button and the **R3** button at the same time for three seconds again.

**Note:** You are not able to change just the **X / Y** buttons or just the **A / B** buttons, the process will swap both at the same time.

### Sleep Function:

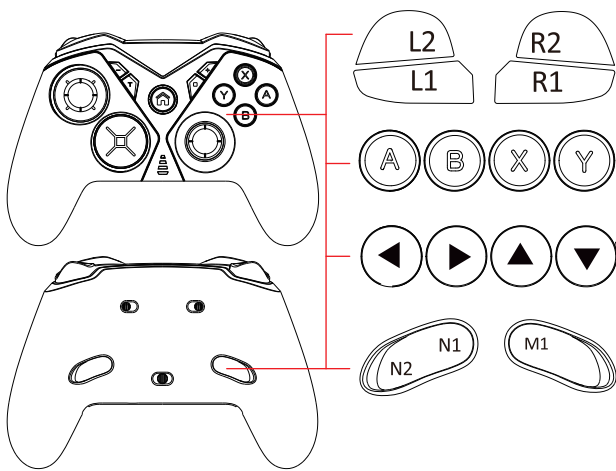
1. After the Switch console is turned off or the connection fails, the controller will automatically go to sleep after ten seconds.
2. To prolong battery life the controller will automatically go to sleep after five minutes if no buttons are pressed.

### Turbo Function:

Many of the buttons on this controller can be set to turbo functionality. The buttons capable of using the turbo function are: **A / B / X / Y / L1 / R1 / L2 / R2 / M1 / N1 / N2 / D-pad.**

- 13 -





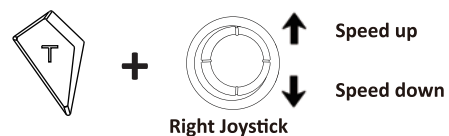
### How to Use the Turbo Function?

1. Press the **Turbo** button and one of the above buttons to enable the semi-auto turbo function on that button. The semi-auto turbo function means if you long press one of the **A / B / X / Y / L1 / R1 / L2 / R2 / M1 / N1 / N2 / D-pad** buttons, you will repeat the button roles. (If you did not activate the semi-auto turbo function, long-pressing a button equals short-pressing a button and the button role actually works for only one time.)

2. Repeat the above step again to enable full-auto mode. The full-auto turbo function means once you activate the full-auto turbo function, you do not need to press any button, and you are automatically repeating the button role which was set for turbo.
3. Repeat the above step for a third time to disable the Turbo function.

### Turbo Speed Adjustment

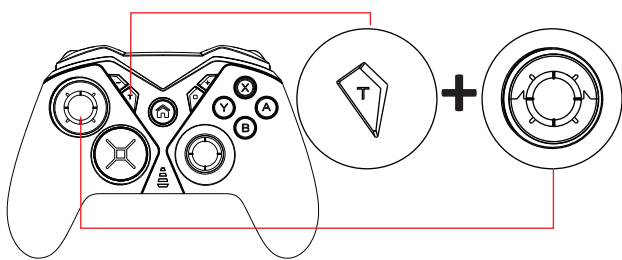
1. Press the **Turbo** button and pull the **Right Joystick** downward at the same time to decrease the turbo speed.
2. Press the **Turbo** button and push the **Right Joystick** upward to increase the turbo speed.
3. Turbo speed can be adjusted in three levels:
  - a. Activates 8 times per second
  - b. Activates 15 times per second (Default)
  - c. Activates 25 times per second



### How to Clear the Turbo Function for All the Buttons?

Press and hold the **Turbo** button for three seconds

The appropriate **Player Indicator LEDs** will flash slowly. Then, while keeping pressing the **Turbo** button, press the **L3** button. The appropriate **Player Indicator LEDs** will remain permanently lit indicating you have successfully cleared the turbo function for all the buttons.



### Haptic Feedback Strength Adjustment:

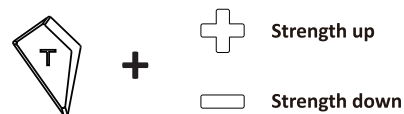
1. Press the **Turbo** button and the - button at the same time to decrease the haptic feedback vibration strength.
2. Press the **Turbo** button and the + button at the same time to increase the haptic feedback vibration strength.
3. After choosing a vibration level the motor will vibrate at the chosen level for 0.5 seconds to

- 16 -

indicate that choice.

4. There are four adjustment levels for the haptic feedback:

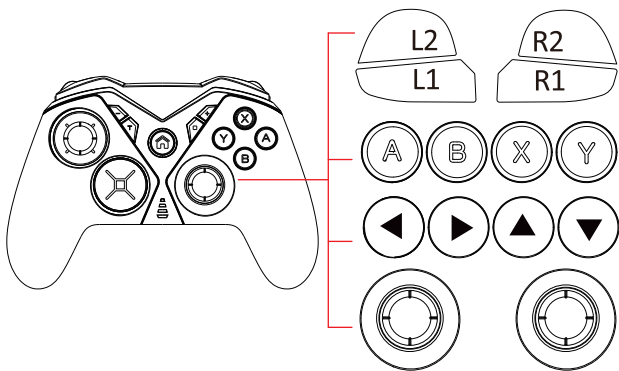
- a. **Off** - Turns the vibration motors off completely. This can also be done in settings for many games.
- b. **Weak** - The lowest setting. This provides minimal feedback.
- c. **Medium** - The default setting. This setting provides noticeable feedback.
- d. **Strong** - The highest setting. This setting provides significant feedback.



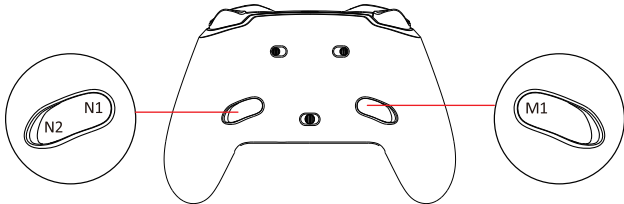
### Mapping the Rear Buttons - Introduction:

1. Many of the buttons on this controller can be mapped to the rear buttons. The mappable buttons are: **A / B / X / Y / L1 / R1 / L2 / R2 / L3 / R3 / D-pad / Left Joystick / Right Joystick.**

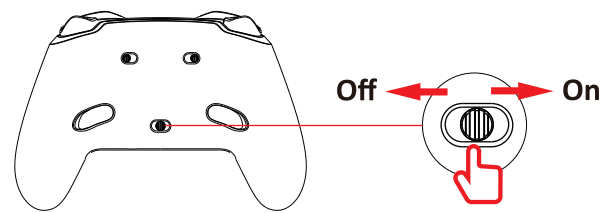
- 17 -



2. The rear buttons that you can map to are: **M1 / N1 / N2.**

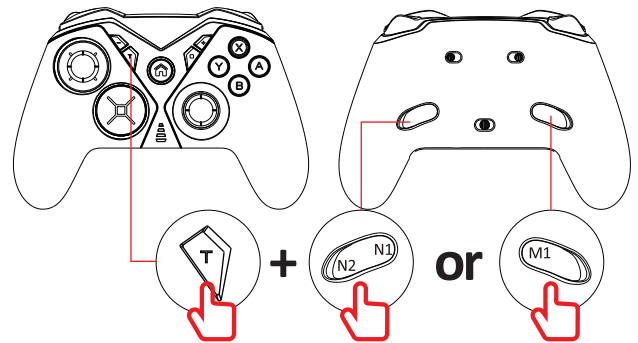


3. Mapping a front button to the rear buttons allows you to duplicate the function of the front button on the rear button.
4. Slide the **Rear Button Mapping Switch** to **Normal** to disable the rear buttons. Enable the rear buttons by sliding the **Rear Button Mapping Switch** to **Custom**.



### How to Map the Back Buttons?

1. Slide the **Rear Button Mapping Switch** to **Custom**.
2. Press and hold the **M1**, **N1** or **N2** button, and hold the **Turbo** button for two seconds to enter mapping mode. The **Player Indicator LEDs** will flash slowly to indicate that you are in mapping mode.



#### a. Mapping one button:

Press one of the **Mappable Buttons** you wish to map and then press the **M1**, **N1**, or **N2** button to complete the mapping. The indicator LEDs will return to their previous state indicating that the process was successful. The **M1**, **N1**, or **N2** button now will have the same functionality as the button you chose to map it to.

#### b. Mapping button combinations:

The **M1**, **N1**, or **N2** buttons support mapping up to 22 inputs under a single button press. Press the combination of the **Mappable Buttons** you wish to map and then press the **M1**, **N1**, or **N2** button to complete the mapping. The indicator LEDs will return to their previous state indicating that the process was successful. The **M1**, **N1**, or **N2** buttons now function as the input combination that you have set.

#### Note:

- The **M1**, **N1** or **N2** button will save the last 25 inputs and complete the mapping if more than 25 inputs are attempted.
- Keys pressed at the same time are equal to one input.

#### 3. Removing mapped keys:

Press the **M1**, **N1** or **N2** button after entering

mapping mode. The respective button will be cleared of any programmed inputs.

#### How to Restore the Back Buttons to Factory Settings?

Press any of the **M1**, **N1** or **N2** buttons, and the **Turbo** button at the same time for eight seconds, and all the back buttons will be restored to factory settings ( **M1=A**; **N1=B**; **N2=L2** ).

#### Joystick Sensitivity Adjustment:

Press and hold the **M2** button and the sensitivity of the Left and Right Joystick will be decreased by 50%. Release the **M2** button and the Joystick Sensitivity will be restored to 100%.

#### L2 / R2 Trigger Movement Adjustment:

Slide **L2 / R2 Trigger Locks** to the outside to enable half-range trigger motion for the **L2 / R2** buttons. Enable full-range trigger motion by sliding the **L2 / R2 Trigger Locks** to the inside.

## Factory Reset:

Press and hold the **Home** button for ten seconds, or use a needle, a pin, or another small item to press the button inside the **Reset Cavity** on the back of the controller. The controller will be powered off and will then reset itself. You will need to pair the controller to your devices again using the methods outlined above as this process will remove all pairing information, any turbos, and any saved button mappings.

## Notes:

- When not in use, it is recommended that you store the controller and do not leave it plugged in for long periods.
- To ensure the longevity and lifespan of the controller please keep it clean and do not stack heavy objects on it.
- If the controller is inoperable but does not show signs of damage, please exercise the warranty or dispose of the item.
- Keep away from children due to potential hazards.

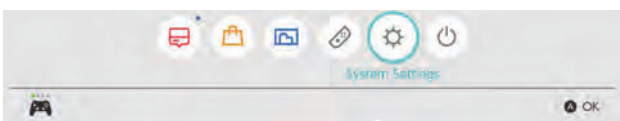
- Do not charge the controller using a frayed or damaged USB cable.
- Do not touch the device, power adaptor, or USB cable with wet hands. Keep this product dry.
- Do not attempt to repair, disassemble, or modify the controller under any circumstance.
- Do not place the controller near fire, heat sources, or in direct sunlight.

## FAQ:

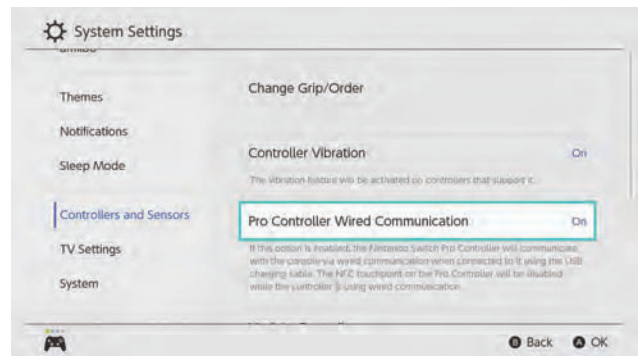
**Q1:** How can I connect the controller to my Switch console?

**A:** If you are not able to connect the controller to the console using the normal methods outlined above, please try the following options in numerical order:

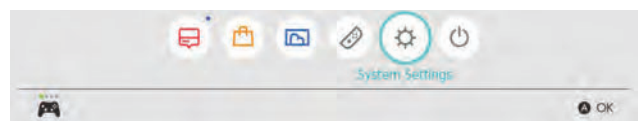
1. This may be due to the controller being low on power. Please try charging the controller first and then try connecting again after charging has been completed.
2. If you have been trying the wireless connection, please try to connect to the Switch console using the provided USB cable. Please enable the Pro Controller Wired Communication setting in the Switch console itself. You can do this by going to **System Settings > Controller and Sensors > Pro Controller Wired Communication**.



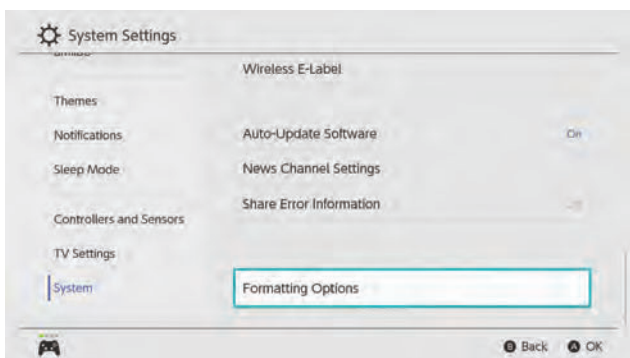
- 24 -



3. Please try clearing the Switch console connection cache as shown in the picture below. You can do this by going to **System Settings > System > Formatting Options > Reset Cache**. If you have a number of connected devices this may affect pairing time. Clear excess wireless data to help the controller pair more quickly.



- 25 -



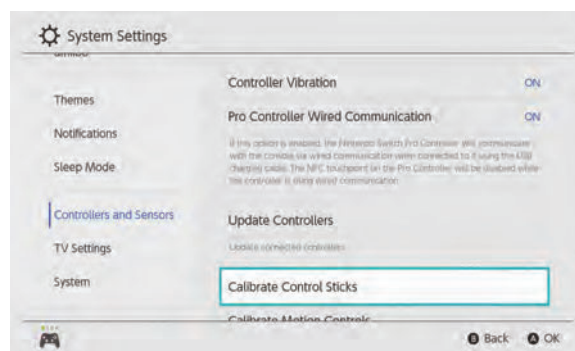
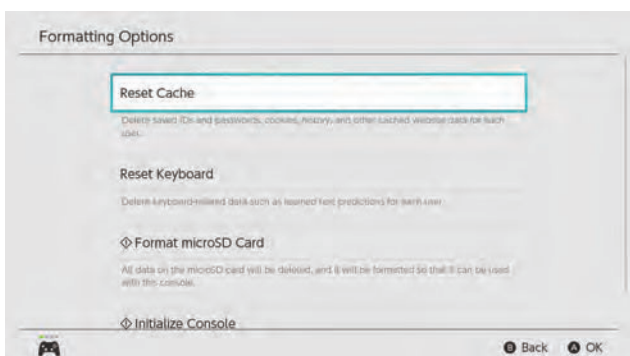
4. If none of the other options helped, please reset the controller. After the controller has been reset, attempt to pair the controller to the Switch console again as outlined in the standard connection procedure above.

**Q2:** How can I calibrate the Joysticks?

**A:** To calibrate the joysticks please follow the instructions below. These instructions must be performed on the Switch console.

**Note:** Place the NS90 Controller on a flat surface for calibration.

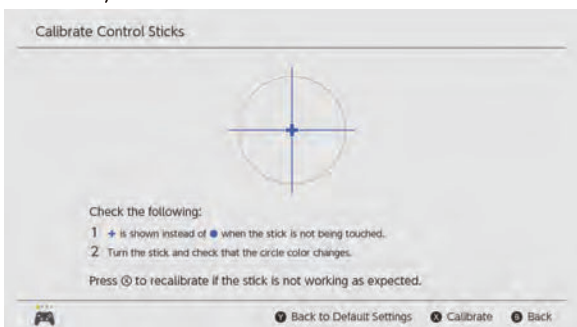
1. Press the **home** button to return to the Switch home page and select **System Settings**.
2. Select the heading **Controllers and Sensors** and then select **Calibrate Control Sticks**.



3. Follow the instructions as shown below to calibrate the joysticks.



4. Follow the onscreen prompts to redo the calibration process if the joystick is not working as expected. Otherwise your joystick will now be fully calibrated.



- 28 -

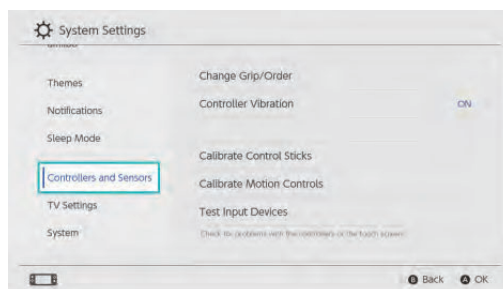
**Q3:** How can I calibrate the motion control in my controller?

**A:** We recommend doing this after connecting to a device for the first time to ensure normal operation. Two methods of calibration are provided below. Please follow either of the following methods to calibrate:

**Note:** Place the NS90 Controller on a flat surface for calibration.

### **Method 1 - Calibration via Switch Console**

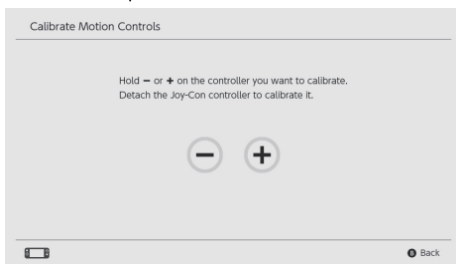
1. Turn on the Switch console and make sure that you have already paired your controller with the console using the method outlined in the section on pairing in this manual. From the Home menu in the Switch select **System Settings** then scroll down and select **Controllers and Sensors** as shown below.



- 29 -



2. Select **Calibrate Motion Controls** from the menu, and then follow the on screen instructions to calibrate the controller by pressing the **+** or **-** keys to start the process as shown below.



3. Please ensure that you follow all instructions as prompted. Failure to do so may result in the calibration failing. Remove all straps and accessories from the controller and place the controller on a flat stable surface with the stick facing upwards.



4. Once the calibration is complete the system will provide a prompt to exit the calibration screen. Press **OK**. The calibration process is now complete and your controller is ready to be used.

## Method 2 - Calibration via Controller Internal Mechanics

1. While the controller is powered off, press the **-** key, the **B** button, and the **Home** button at the same time. The controller number LED lights will flash indicating the controller has entered the debugging state and it is ready to proceed with the calibration.
2. Place the controller on a flat surface and then press the **+** key, the controller will perform the calibration automatically.
3. When the calibration process has finished the controller number LED lights will turn off to indicate that the calibration is complete. The calibration process is now complete and your controller is ready to be used.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

#### Radiation Exposure Statement

The device has been evaluated to meet general RF exposure requirement in portable exposure condition without restriction.