# Pairing a Rpi 3 with on board Bluetooth to a PS3 controller

Excerpts From <https://www.piborg.org/rpi-ps3-help>

Step 1: write approved client image to SD card, and boot.

TODO: automate this with python commands and update the current automatic process (boot with PS controller connected, automatically pairs controller)

Plug the controller into the Raspberry Pi with the USB cable and the Bluetooth dongle if you have not already.

We will also restart the Raspberry Pi to ensure the Bluetooth service is running:

sudo reboot

sudo ~/sixpair

The sixpair code should re-configure the controller to talk with the dongle, if it worked you should see something like:

Current Bluetooth master: 00:15:83:0c:bf:eb

Setting master bd\_addr to 00:15:83:0c:bf:eb

displayed on the terminal.

Now disconnect the controller from the USB cable.

Next we start the Bluetooth configuration tool and set the dongle so it can be seen by the controller:

sudo bluetoothctl

discoverable on

agent on

If you cannot run bluetoothctl you may be running an older version of Jessie and might need to install the old Bluetooth module using: sudo apt-get -y install bluetooth after which you should restart the Raspberry Pi and try again.

Now you can press the PS button on the controller and it should attempt to talk to the Raspberry Pi.

You should see some log lines like this at a regular interval:

[NEW] Device 38:C0:96:5C:C6:60 38-C0-96-5C-C6-60

[CHG] Device 38:C0:96:5C:C6:60 Connected: no

[DEL] Device 38:C0:96:5C:C6:60 38-C0-96-5C-C6-60

You will need to make a note of the MAC address displayed, it is the sequence with ':' symbols.

In this example it is 38:C0:96:5C:C6:60

With this we can attempt to make contact with the controller.

Use the trust command with the MAC address from earlier, in our example:

trust 38:C0:96:5C:C6:60

If everything went well you should see something like:

[CHG] Device 38:C0:96:5C:C6:60 Trusted: yes

Changing 38:C0:96:5C:C6:60 trust succeeded

Finally exit the Bluetooth configuration tool and restart the Raspberry Pi.

quit

sudo reboot

## OPTIONAL testing:

Once you have logged back in press the PS button to test the connection.

The LEDs should briefly flash, then just one LED should remain lit.

You can then use the following command to list the connected joysticks:

ls /dev/input/js\*

At least one should be shown, probably /dev/input/js0.

Finally you can test the PS3 controller is working using the device name from the last command with jstest:

jstest /dev/input/js0

The numbers shown should change as you move the joysticks around, if so everything is working properly.