

# Red and Green Modules: *The Difference*

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The red and green modules (white and brown for later versions of the PS4 respectively) for the PS3 and PS4 look very similar, but they do different tasks.

A very commonly asked question is "What is the difference between the red and the green modules?"; here is the answer to that question.

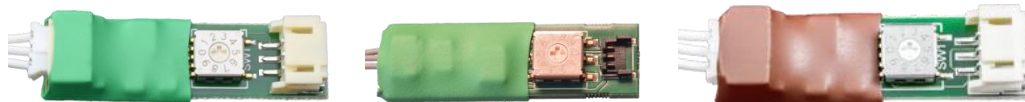
## The Red (White) Module:



The red module allows the user to vary the speed of the fan from that demanded by the console, up to the full speed of the fan. Once set, that speed will not vary unless the console warms up enough to require a higher fan speed than that set at the module, at which point the console is allowed to take over control of the fan. The fan will never spin more slowly than it would without the module fitted.

This (red) version has a continually variable control (a potentiometer or "pot") so the speed of the fan can be set anywhere between the console demand and full speed.

## The Green (Brown) Module:



This module will track the fan speed demand from the console, add a proportion of that demand and drive the fan at the resulting faster rate (up to but not beyond the full speed of the fan).

The proportion to be added to the demanded speed is set by the 10-position switch. Each switch position is a 10% step in value. As an example, setting the switch at position "4", will add 40% of the demanded speed. In other words, if the console is asking the fan to spin at 30% of full speed, the module will add 40% of that demand (30%), resulting in an **actual speed** of 42% of full speed.

### Comparison:

Below is a graphical representation of the effect of the green and red modules on the speed of the fan. The thick orange line represents the speed of the fan without a module fitted and the green and red lines represent the speed of the fan with the green and red modules (respectively) fitted and the control switch set to position "7", or about 3/4 rotation of the pot on the red version

**Effect of Red and Green Modules on Fan Speed**  
**(Switch set to position "7")**

