







## **Manufacturing Notes**

## Front sensor mount

The line following sensors and LDR sensor are mounted on one of the doors at the front by a rod screwed through a tab on the door. The line following sensors slide along the rod which gives electrical teams ease to alter the sensors to improve the performance.

The LDR sensor is attached to the rod by a plate however with no obvious and easy mounting solution the actual sensor is held in place by hot glue. The position of the plate can be altered however the LDR is typically in a fixed position pointing directly at the fruit.

## Ultrasound sensor mount

The ultrasound sensor although having holes in the structure to allow it to be mounted the small screw size wasn't available therefore a sophisticated mount wasn't feasible. The ultrasound sensor is mounted to the shortest tab via hot glue. The connecter for the circuit which is attached to the sensor is fairly bulky so sits on top of the tab ensuring that the sensor remains flat to the surface.

## **Door bracket**

This part is fairly fiddly to manufacture by hand especially when cutting the tabs that hold the doors in place. However the section that holds together the gear plate and the door mount doesn't need to be completely true to design as some material can be lost during the manufacturing as long as the plates are still connected. For example filling the cut line rather than using a saw will make manufacturing easier.