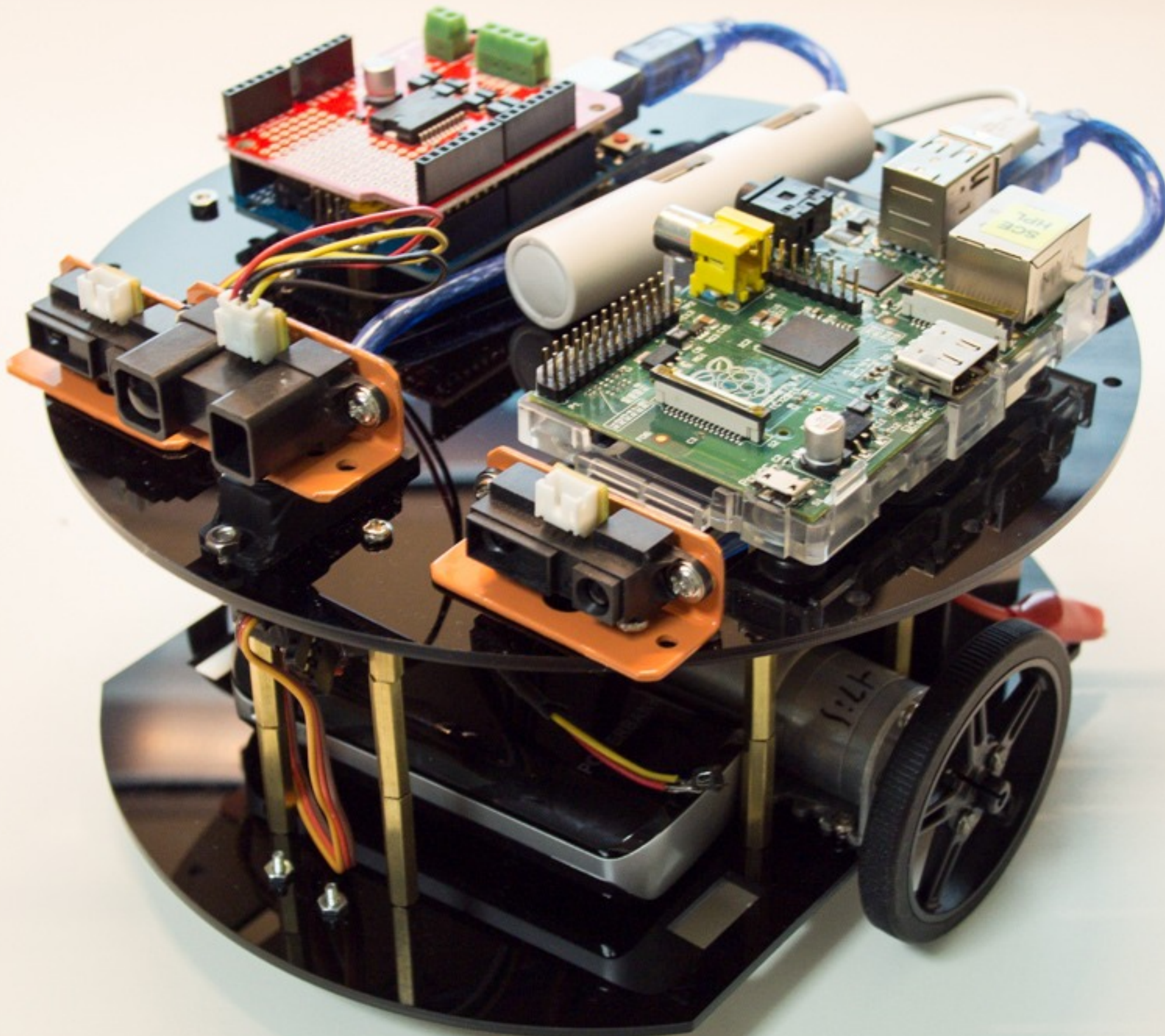


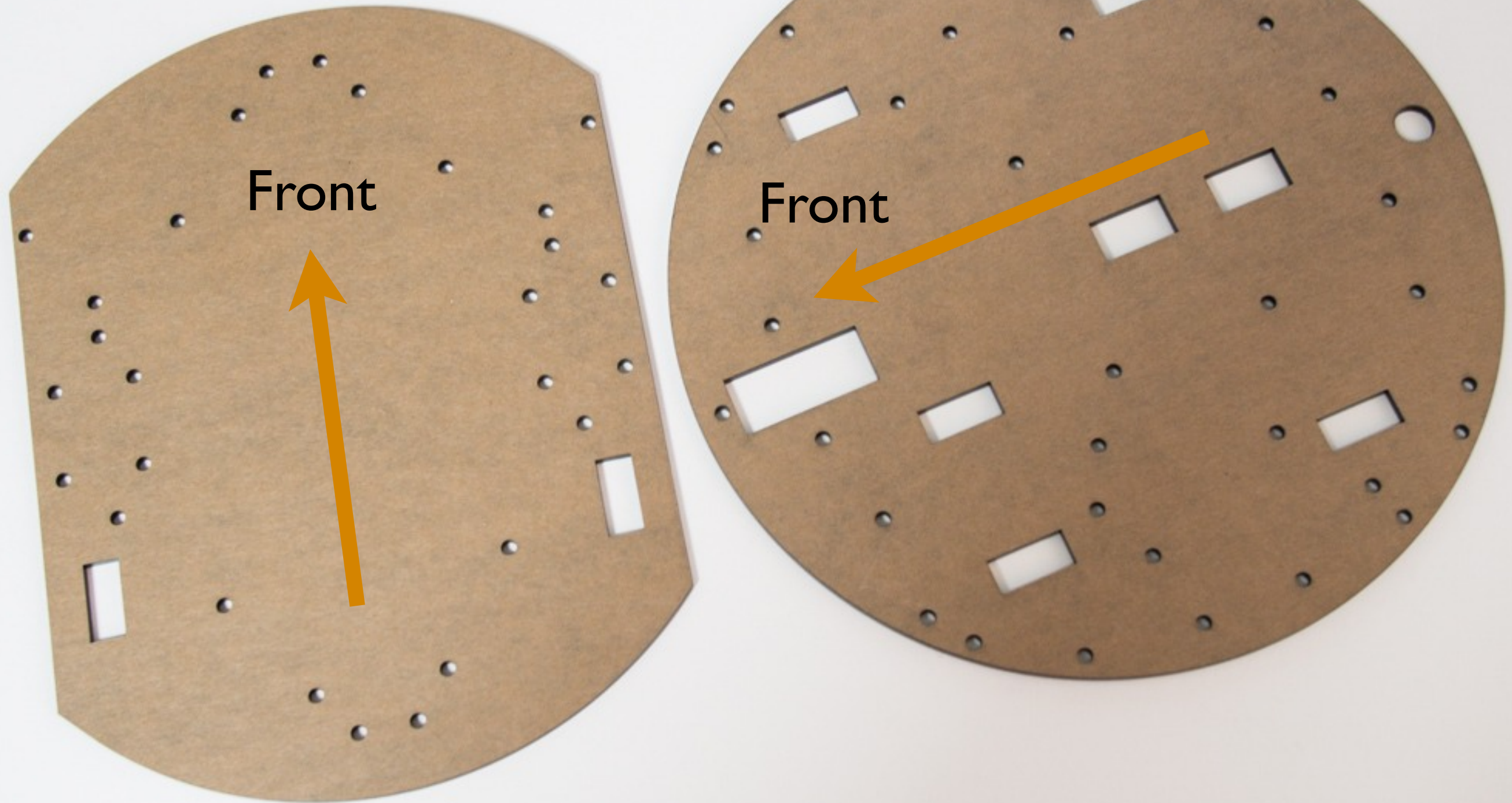
Robot kit assembly

CE3004/CZ3004/CSC279 MDP

Updated 2013-08-18



Base plates: Protective layers
can be removed



The upper and lower plates are connected by 75mm standoffs.

Each standoff is constructed by screwing together three 25mm standoffs in the arrangement below:

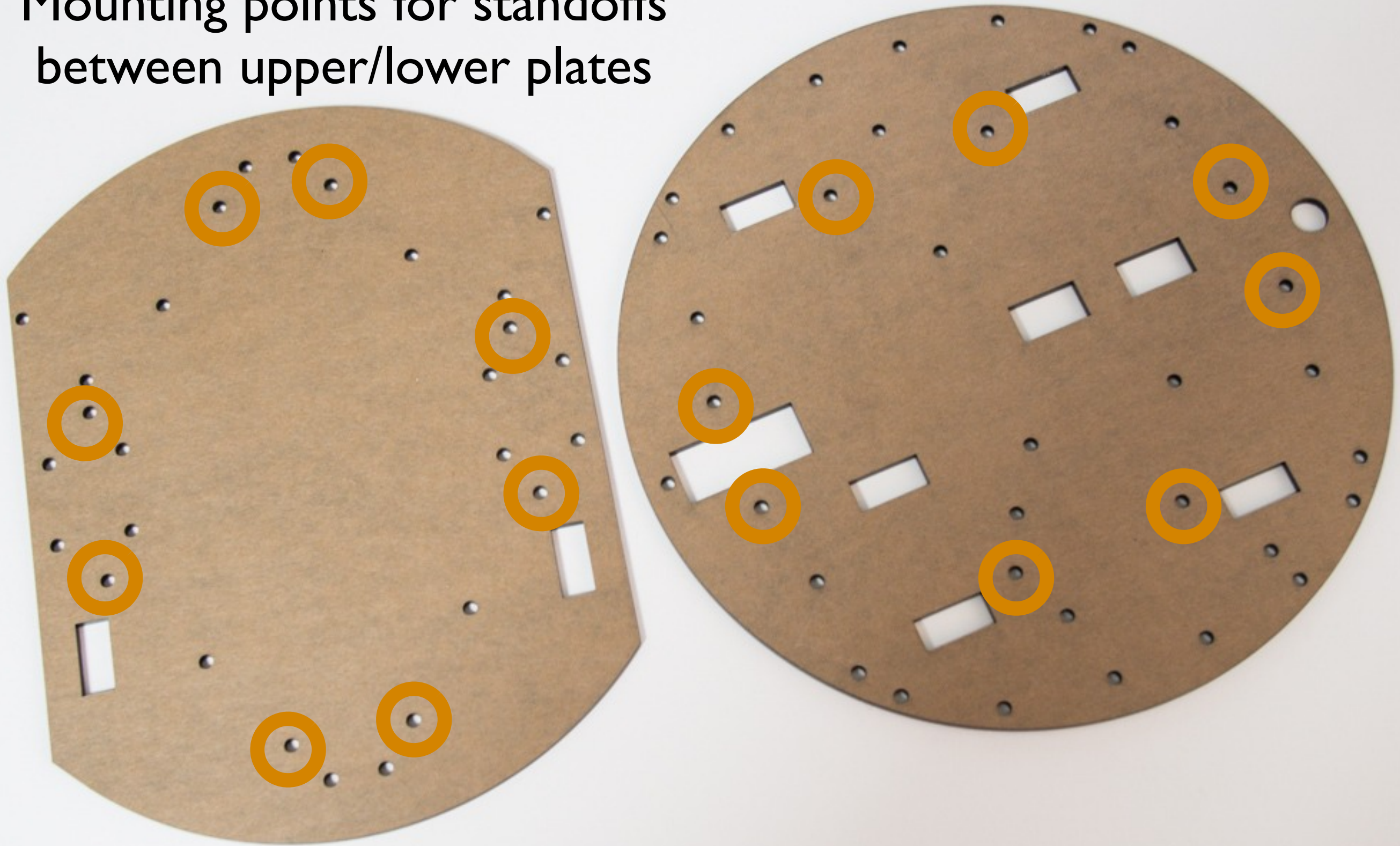
2 x female-male + 1 x female-female standoffs

Note: There are a total of 8 attachment points each on the upper and lower plates, but not all of them need to be used.

All fastening hardware (screws, nuts, standoffs, etc) uses M3 threading and is safely interchangeable.



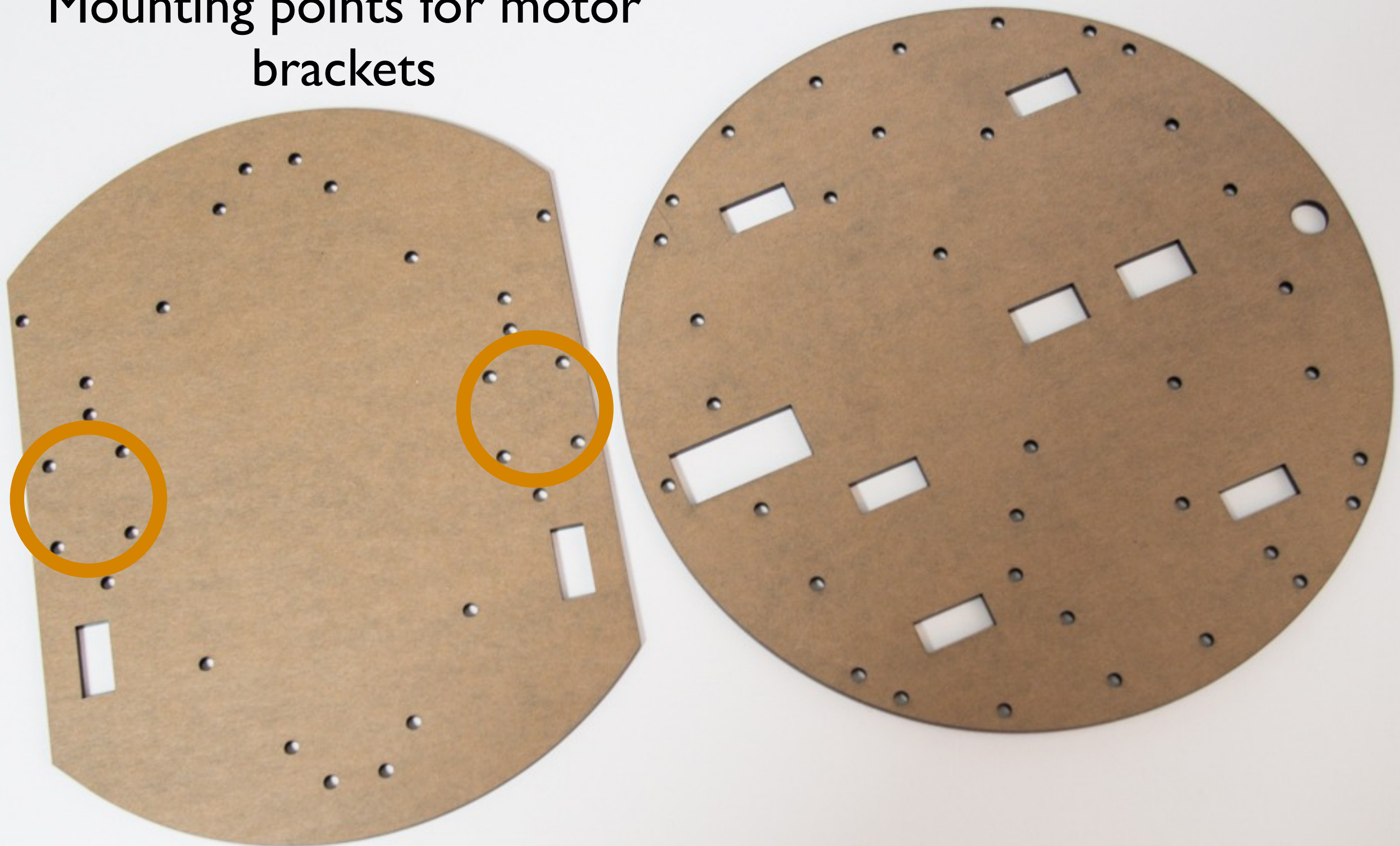
Mounting points for standoffs between upper/lower plates



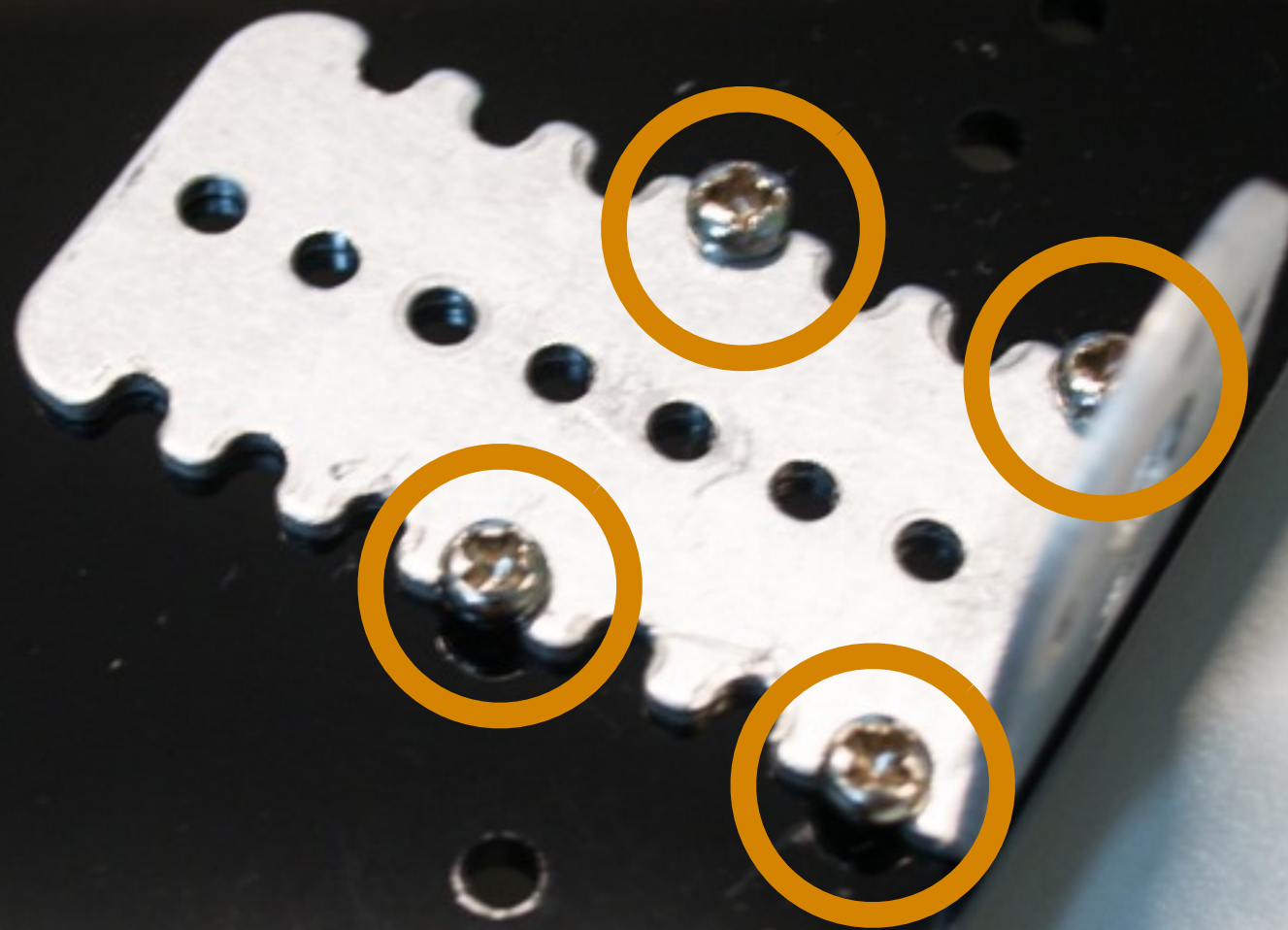


Metal ball casters: Use the provided spacers to adjust ground clearance and reduce rocking after motors + wheels are installed

Mounting points for motor brackets



Install motor brackets: M3 x
6mm screws + nuts



Install motor brackets: Bottom view

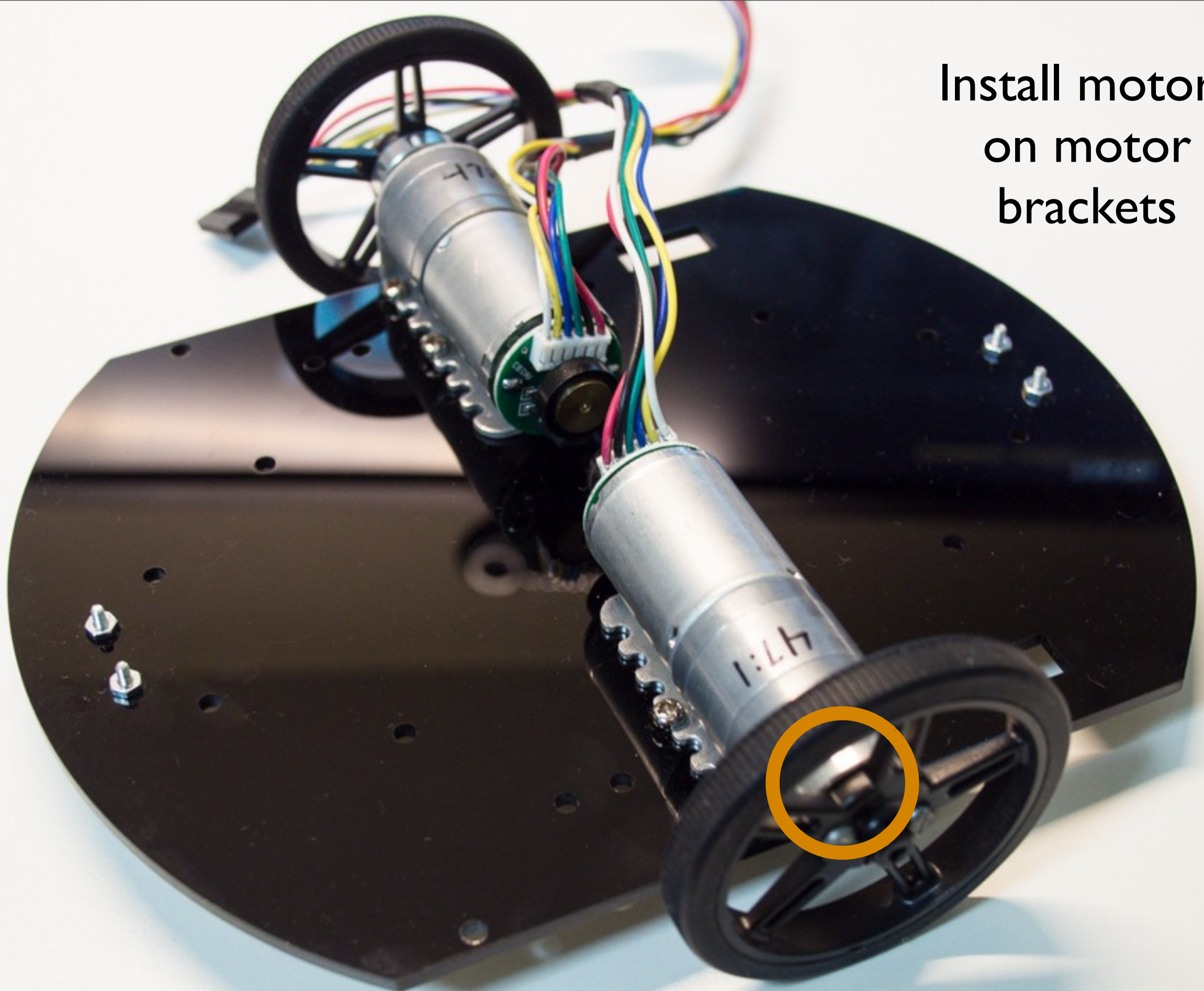


Install wheels
on metal hub
using included
screws

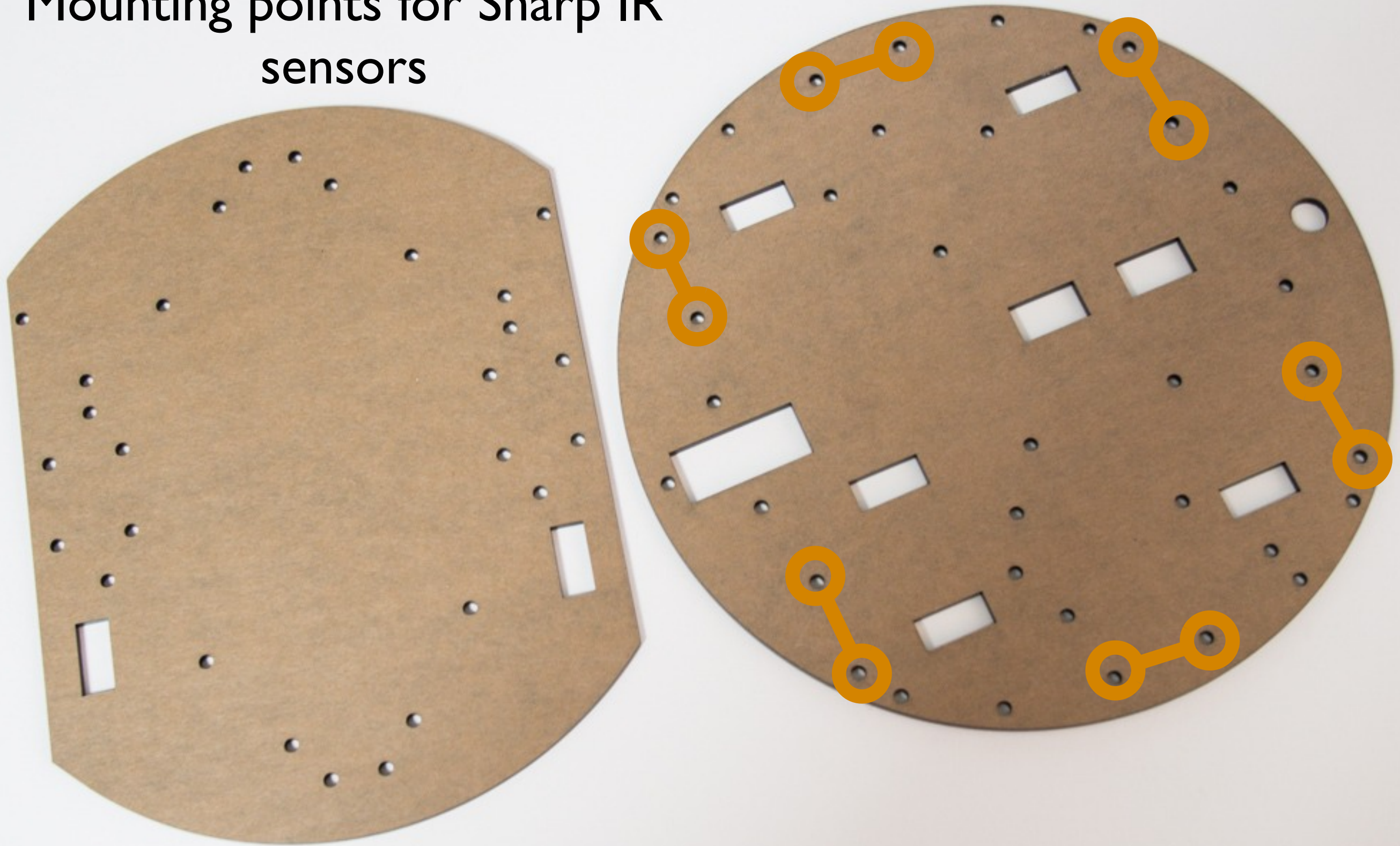


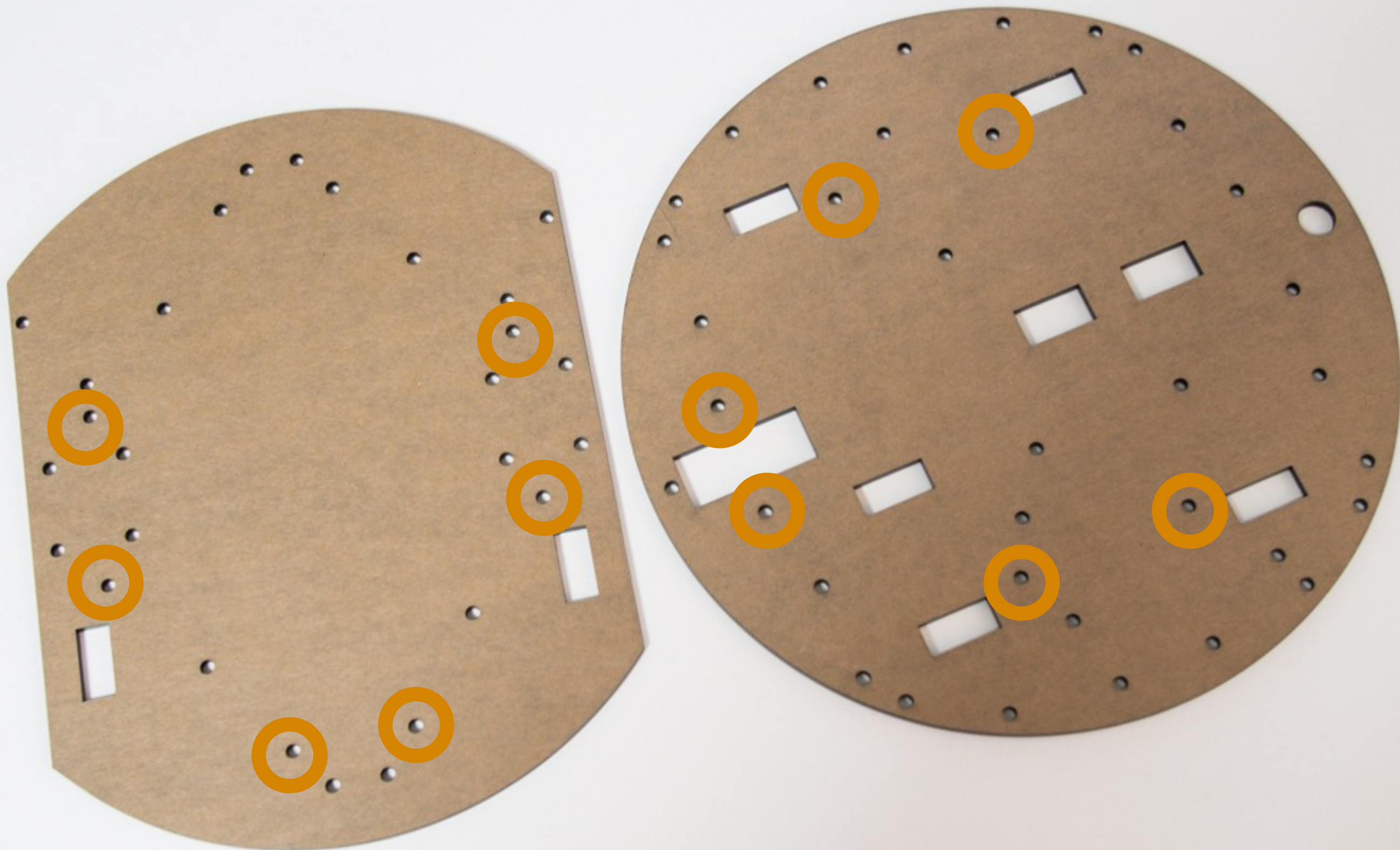


Install motors
on motor
brackets

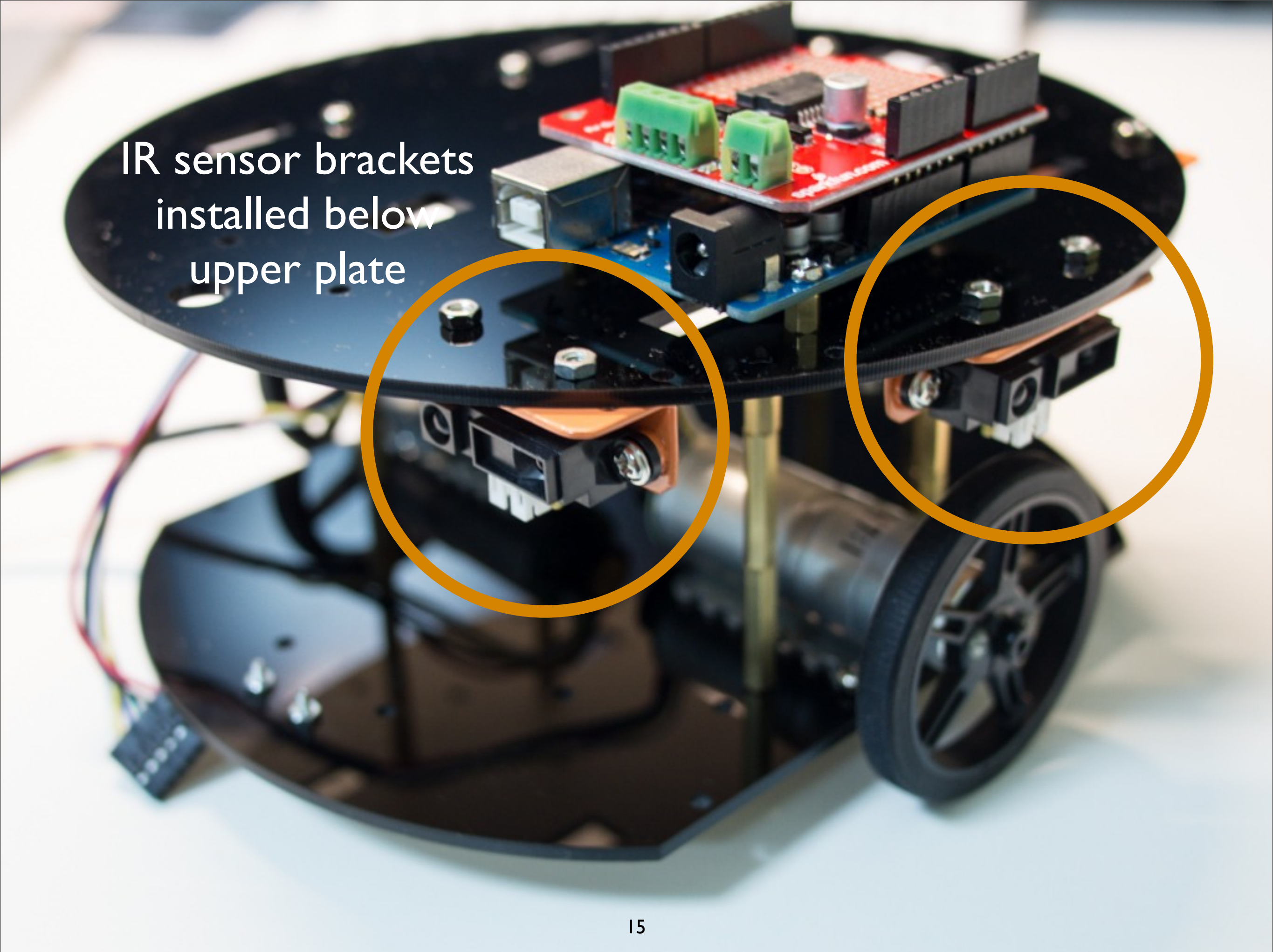


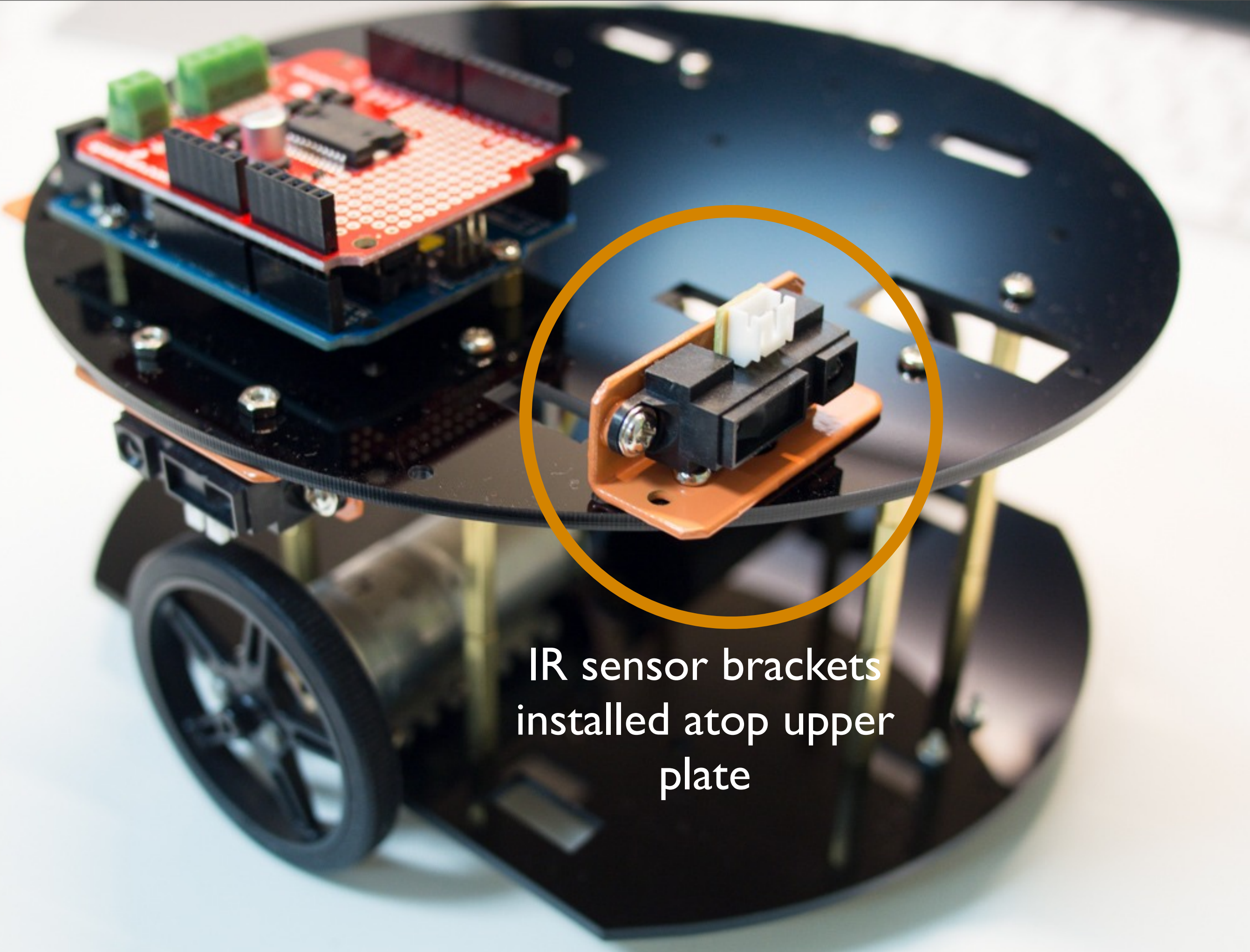
Mounting points for Sharp IR sensors





IR sensor brackets
installed below
upper plate





IR sensor brackets
installed atop upper
plate