

Module 1 test plan:

90° against wall real distance vs measured distance (3 times)
with 3 different speeds (1 times per speed)
same with an angle of 45° & 135° (2 times per angle)

breaking test:

breaking at a given distance & measure where the car comes to a stillstand (5 times with different speeds)

measure with different timer periods to elaborate the delay of the timer & thus the delay of the communication (total delay – delay timer) (2 different periods with 2 times per period)

Sensor distance measurement: walk towards the wall with the car & see when it starts recognizing it;

Bluetooth operating distance: walk away with the car and see when it disconnects;

Turning radius: set D200 and let it run; measure the radius;

Max command refresh time;

also ask for the speed (force) when measuring stop time in the timer (not only the sensor distance);

if we have time: test with driving backwards instead of stop the wheels for breaking;