## Mars 2020 Rover

## Zero Radius Turn Version



Scroll for building instructions

## First build these sub-assemblies:



Zero Turn Steering (make 2x)


Drive Wheel (make 2x)


Sensor Deck

(7)




Snap in the two
Drive Wheels on the sides.

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You can hide the Drive Wheel wires in these spaces if you want.




Front


## A = Light Sensor (Arm)



The arm wire should remain loose so the arm can unfold.

The distance sensor wire can be tucked in here.

In a Zero Radius Turn geometry, all four of the outside wheels turn to become perpendicular to a turning center at the very center of the robot.

This allows the robot to pivot in-place around its own center for maximum maneuverability in tight spaces.

However, only two steering positions are effective: the zero radius turn shown here, and all wheels parallel to drive straight.


The rover is fully functional at this point

...or for more visual details, add:


Nuclear Power Source


Finishing Touches

