

Week 11 – Making Pointcloud Map Outdoors

1. Fill in the Blanks – Operating Procedure for Driving the Car Without External Power Source
 - The main difference between the indoor (Week 10) and outdoor (Week 11) mapping procedure is that the _____ power source must be _____ before driving the car.
 - To turn the vehicle on, you must step on the _____ and press the _____ button.
 - The vehicle is a _____, which means it may use _____ only and the engine might not start audibly.
 - One way to confirm that the car is “drive-ready” is to shift the gear selector into _____.
 - Before driving off, you must unplug the 120V plug and all external accessories such as the _____, _____, and _____ cable from the PC.
 - When recording the outdoor ROSBAG file, you should try to keep a consistent speed of less than _____ mph and drive in an area with minimal _____ and _____ objects.
2. The correct sequence for returning the car is:
 - a. Park but keep ignition on,
 - b. Plug in the 120V power cable,
 - c. Shut the vehicle off.

Explain what could go wrong with the PC and sensor power if you did these steps out of order (for example, turning off the car before plugging in the 120V cable).

3. Explain why it is important to verify that the car is in “drive-ready” mode before unplugging accessories and driving away. What might happen if you skip this check?