

# HO Nampa Coal Dump Operation

For future reference let's refer to the three car stopping location as Top (1) Bottom but away from the switch (2) and at the switch (3).

Flip the power switch to on and after a brief delay one of two things will happen.

If the drive nut is at hall sensor 1 (closest to motor) and it's LED is on then nothing will occur. If the drive nut is away from hall sensor 1 then the drive motor will start traveling towards hall sensor 1 until the LED turns on.

Once that is complete then it is ready for operation.

Pushing the start with the car at location 1 and the key removed. The car will travel to location 2.

Pushing the start with the car at location 2 and the key removed. The car will travel to location 1.

Pushing the start with the car at location 1 and the key inserted. The car will travel to location 3.

Pushing the start with the car at location 3 and the key inserted. The car will travel to location 1.

Pushing the start with the car at location 2 and the key inserted. The car will travel to location 3.

## Set up and hall sensor adjustment

Before attaching the string to the car power up the system to ensure it is at the number 1 hall sensor or Top of the hill. Now hook up the string and adjust so the car is in the desired position at the top of the hill. Let's start by moving the number 2 and 3 hall sensor boards to the far end of the mechanism. Now turning the motor coupling by hand moving the car down the hill until the number 2 position is reached. Now move the number 2 hall board until it's LED just turns on and tighten the screw. Again rotate the motor coupling until the car reaches the number 3 position. Now move the number 3 hall board until it's LED just turns on and tighten the screw. You can now run it, make adjustments as needed.

