

Animation Worksheet: Manual Lever Position Switch (MLPS)

Name: _____ Date: _____

1. The Manual Lever Position Switch (MLPS) is used by the control module, or _____, to determine which gear range has been selected.
2. Knowing which gear is selected is crucial for several vehicle functions, including shift logic, idle speed control, diagnostics, emission control, and starting _____.
3. The vehicle's computer supplies a stable _____-volt reference voltage to the shift selector switch circuit.
4. Inside the MLPS, each individual gear position is connected to a specific _____ or combination of them.
5. The control module identifies the current gear by reading the _____ drop caused by the total resistance in the active signal path.
6. When the shift lever is placed in the Park (P) position, there is no resistance, and the sensed voltage is low, close to _____ volts.
7. Shifting the lever into the Reverse (R) position places _____ resistor(s) into the circuit's signal path.
8. When the driver moves the selector into Neutral (N), there are _____ resistors connected in series, causing the voltage drop to increase.
9. As the shifter is moved through Drive (D), Manual 2 (2), and Manual 1 (1), the total resistance increases because more resistors are added in _____.
10. In the Manual 1 (1) position, all five resistors are in the circuit, which allows the _____ voltage to be sensed by the controller.