

Animation Worksheet: Shift Solenoid Operation

Name: _____ Date: _____

1. When a solenoid is NOT energized, the plunger position is pushed out by a _____.
2. When the solenoid is in the "OFF" state, the check ball completely _____ the ball seat.
3. When the solenoid is NOT energized and the check ball blocks the exit, the fluid pressure inside remains high and there is _____ action taken by the shift valve.
4. To change the state of the system, the Powertrain Control Module or _____ switches the circuit to the ground.
5. Once the circuit grounds and electricity flows, the coil status changes from not energized to _____.
6. When the coil is energized, the plunger is pulled into the solenoid body by a _____.
7. When the plunger is pulled back, the check ball becomes _____ from its seat.
8. Once the check ball unseats, fluid is allowed to leave the passage and escape out through the _____ ports.
9. Because fluid is allowed to escape freely through the exhausts, the fluid pressure in the chamber immediately _____.
10. When the fluid pressure drops, the spring at the end of the shift valve pushes it over, causing the valve to move to _____.