

## Animation Worksheet: Normally Closed Solenoid

Name: \_\_\_\_\_ Date: \_\_\_\_\_

1. Before using the machine to prepare the vehicle, you must warm the engine to operating temperature so the transmission fluid \_\_\_\_\_ properly.
2. High-pressure transmission fluid is sourced from the transmission's \_\_\_\_\_, which acts as the input to the solenoid valve.
3. When the solenoid is de-energized (turned off), the \_\_\_\_\_ forces the plunger to the right.
4. In this de-energized state, the controlled circuit vents to the exhaust, and the hydraulic pressure is \_\_\_\_\_ or low.
5. When the transmission control module sends electrical current to the solenoid coil, the \_\_\_\_\_ field pulls the pintle upward.
6. Once the valve opens, it allows supply pressure to flow directly into the \_\_\_\_\_ port.
7. Controlled pressure increases to move components, such as applying pressure to a shift valve to start a \_\_\_\_\_ gear change.
8. When the solenoid is energized and the valve is open, the \_\_\_\_\_ port is typically blocked.
9. When the solenoid is de-energized again, the spring pushes the pintle closed to block the \_\_\_\_\_ pressure.
10. To prevent harsh shifting and ensure smooth gear changes, \_\_\_\_\_ control solenoids are used to regulate line pressure.