

Animation Worksheet: Start/Stop Fluid Pressure Accumulator

Name: _____ **Date:** _____

1. Vehicles equipped with start/stop engine technology use a transmission _____ to maintain hydraulic pressure when the engine shuts off.
2. When the engine is running, the _____ pump is active and sends pressurized fluid into the accumulator.
3. Pressurized fluid entering the accumulator pushes against an internal _____, which is opposed by a spring that resists movement.
4. As fluid pressure builds and overcomes the spring tension, the _____ inside the accumulator are lifted or disengaged.
5. Lifting these components allows the piston to fully stroke and store _____ fluid behind it.
6. When the vehicle stops at a traffic light and the engine turns off, the normal _____ pressure is lost.
7. To preserve the stored pressure when the engine stops, the Engine Control Module energizes the accumulator's internal _____.
8. Energizing this component activates the latch balls, locking the _____ in place to hold the stored pressure.
9. When the driver releases the brake or presses the accelerator, the engine restarts and the Engine Control Module _____ the solenoid.
10. Releasing the latch balls allows the piston to move forward, instantly releasing fluid to apply transmission elements like clutches or brakes before the pump fully resumes _____.