

Animation Worksheet: Variable Displacement System

Name: _____ Date: _____

1. A variable displacement lifter plays a crucial role in controlling _____ operation.
2. This system allows the engine to _____ specific cylinders to improve fuel efficiency.
3. Unlike standard lifters, variable displacement lifters can switch between _____ and _____ modes.
4. The three primary internal components of this lifter are the lifter body, an _____, and a locking pin.
5. When the engine decides to deactivate a cylinder, a solenoid-controlled passage sends _____ to the lifter.
6. The pressurized oil causes the _____ to release inside the lifter assembly.
7. Once the pin is released, the lifter _____, absorbing the motion of the camshaft.
8. When the lifter is in its collapsed state, it does not transfer force to the _____ or the valve.
9. Because the valve stays closed, no _____ mixture can enter the cylinder, effectively shutting it down.
10. When more power is needed, the engine adjusts oil pressure to _____ the locking pin and restore valve operation.