

Animation Worksheet: Pressure Balanced Clutch

Name: _____ Date: _____

1. A pressure balanced clutch in an automatic transmission is a hydraulically actuated _____ clutch assembly.
2. The _____ encloses the clutch components and rotates with part of the gear train.
3. The _____ is a circular hydraulic actuator that moves axially inside the clutch housing.
4. The fluid dam contains hydraulic fluid used to apply or _____ the clutch.
5. Compensator fluid is present behind the piston on the _____ side to help balance hydraulic forces.
6. The _____ is the inner splined component of the clutch that connects to the transmission output or input shaft.
7. Clutch apply pressure varies between 50 and _____ PSI depending on the gear range and throttle position.
8. When the clutch is applied, the hub and housing rotate together as _____.
9. When the clutch is released, apply pressure is exhausted, and _____ push the piston back.
10. In high-speed conditions, fluid remaining in a spinning clutch will be affected by _____ force, which can create unintended apply pressure.