

Animation Worksheet: Dual Clutch Transmission (Transaxle)

Name: _____ Date: _____

1. A Dual-Clutch Transaxle (DCT) functions like two _____ transaxles in one unit that are electronically shifted.
2. The transaxle uses two separate _____ to connect the engine to the internal gear sets.
3. One clutch is responsible for the _____ gears (1st, 3rd, 5th, and 7th).
4. The other clutch is responsible for the _____ gears (2nd, 4th, 6th) and Reverse.
5. Because there are two clutches, the transaxle can _____ the next gear before the current gear is even released.
6. Power travels from the engine through two _____ input shafts, where one shaft is located inside the other.
7. During a shift, one clutch _____ while the other simultaneously engages, resulting in almost instant power delivery.
8. According to ASE standards, the shifting process in a DCT is controlled by the _____ Control Module (TCM).
9. The TCM uses electronic _____ to manage the hydraulic pressure needed to move shift forks and engage clutches.
10. A major advantage of a DCT is its high _____ efficiency because it does not use a traditional torque converter.