## Hybrid Electric Vehicle Transmissions and Transaxles
### Chapter 10

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#### ACROSS

1. In a ______ ______ design, the engine turns a generator and the generator can either charge the batteries or power an electric motor that drives the transmission.  
2. In the ______-____ transaxle, a large electric motor/generator is directly attached to the transaxle final drive and to the planetary ring gear.  
3. In a series hybrid design, sole propulsion is by a battery-powered electric motor, but the electric energy for the batteries comes from another on-board energy source, such as an ______ ______.  
4. A ______ uses idle stop regenerative braking, and is able to propel the vehicle using the electric motor(s) alone.

#### DOWN

1. In a ______ ______ design, multiple propulsion sources can be combined, or one of the energy sources alone can drive the vehicle.
2. ______ ______ are so named because anything that propels the vehicle is said to provide a traction force.
3. ______ ______ includes three simple planetary gear sets with four multi-plate clutches.
4. In a ______ ______, the internal combustion engine may be operating even though the vehicle is stopped if the electronic controller has detected that the batteries need to be charged.
5. A ______ will incorporate idle stop and regenerative braking but is not capable of using the electric motor to propel the vehicle on its own without help from the internal combustion engine.
6. ______ ______ is not capable of propelling the vehicle from a stop using battery power alone.
7. ______ ______ includes three simple planetary gear sets with four multi-plate clutches.
8. ______ ______ includes three simple planetary gear sets with four multi-plate clutches.
9. ______ ______ assembly is located between the internal combustion engine and the transmission.
10. In a ______-____ design, multiple propulsion sources can be combined, or one of the energy sources alone can drive the vehicle.
11. ______ ______ are so named because anything that propels the vehicle is said to provide a traction force.
12. ______ ______ assembly is located between the internal combustion engine and the transmission.