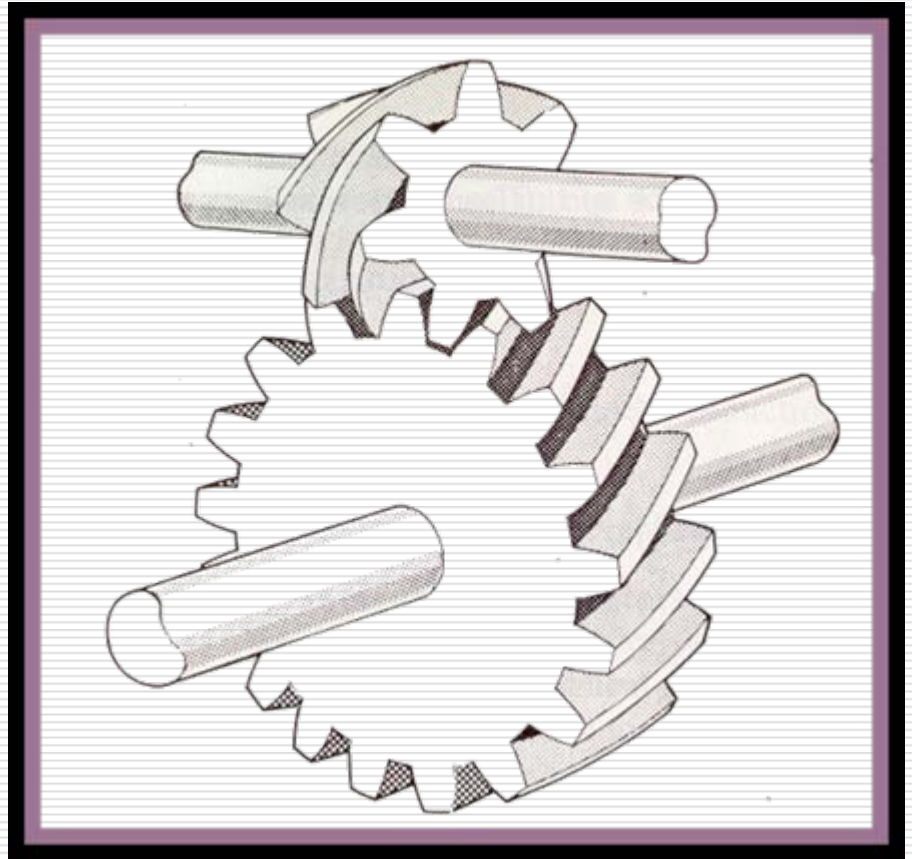


Manual Transmission/Driveline

Mid-Term Review

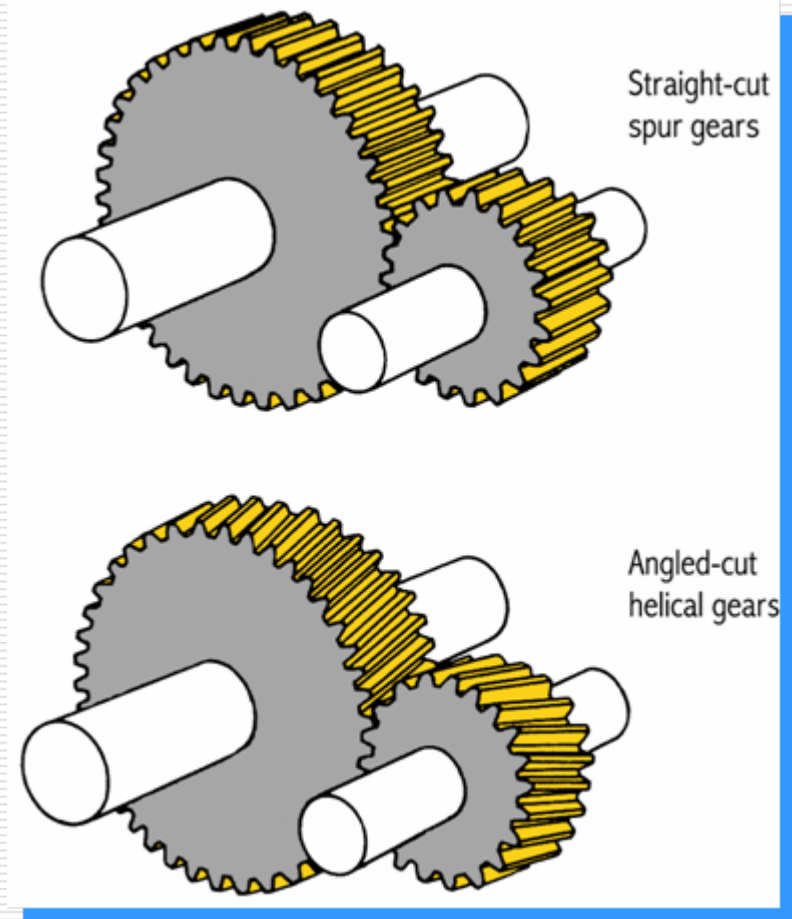
Manual Transmission/Driveline

- Helical gear teeth create a wiping action as they engage or disengage with other gear teeth.



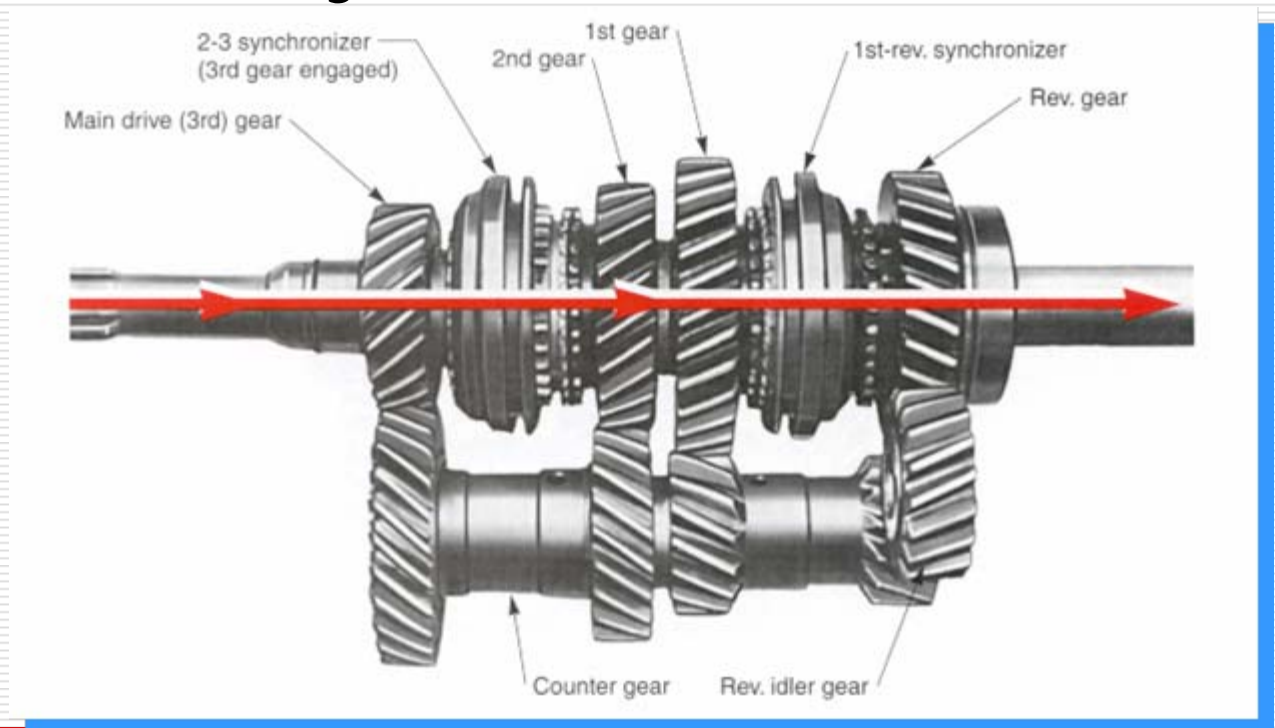
Manual Transmission/Driveline

- Straightcut gear teeth are NOT quieter than helical gears and DO cause axial thrust.



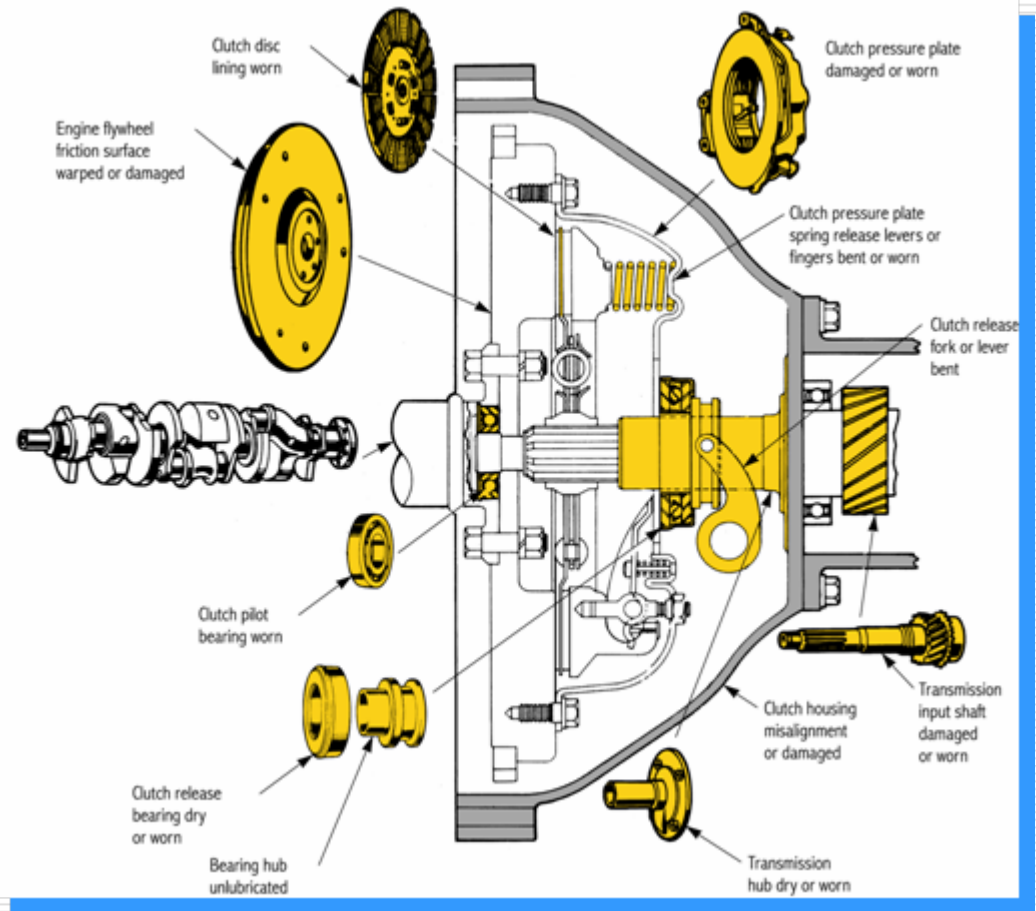
Manual Transmission/Driveline

- In third gear, the shift fork DOES NOT move the 1–2 synchronizer sleeve forward.



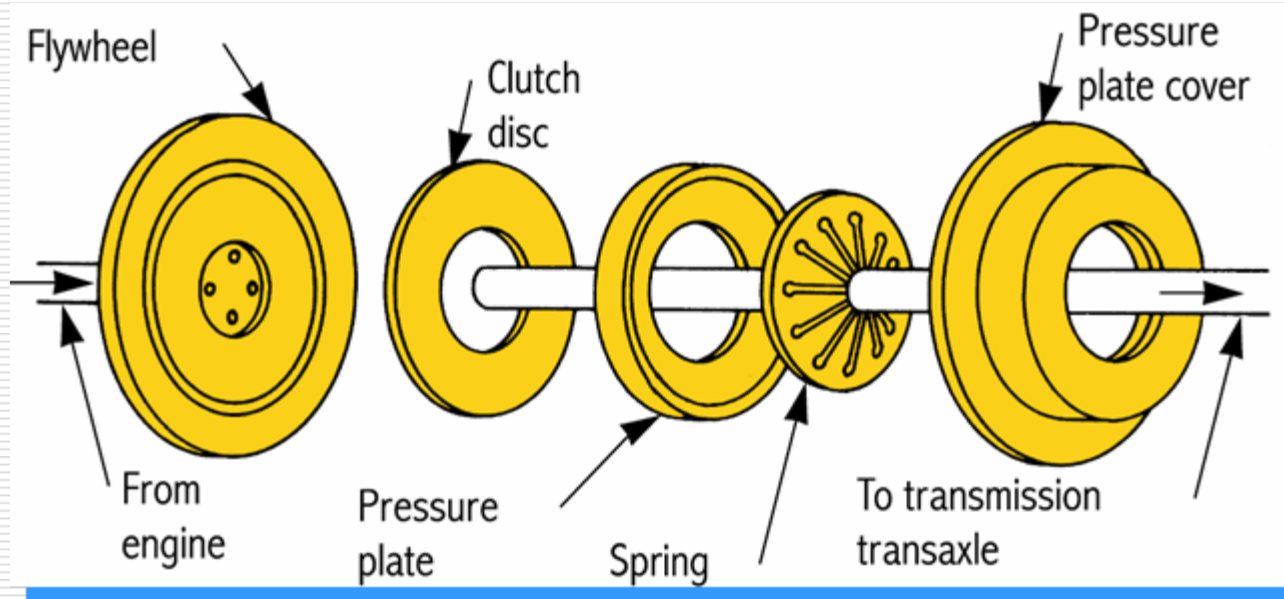
Manual Transmission/Driveline

- A fixed clutch disc DOES NOT allow movement between the facings and the hub.



Manual Transmission/Driveline

- The FLEXPATE is a heavy, circular steel component that is bolted to the rear crankshaft flange.



Manual Transmission/Driveline

- *Backlash* is the amount of movement between the meshed teeth on two gears.
 - *Gear Reduction* occurs when a smaller diameter gear drives a larger diameter gear.
 - *Gear Ratio* is the size comparison between the drive and driven gears.
-

Manual Transmission/Driveline

- ❑ A blocker-type synchronizer has a hub with internal and external *splines*.
 - ❑ If the first speed gear ratio is 3.40:1 and the differential gear ratio is 3.72:1, the total gear ratio is *12.648:1*
 - ❑ A *interlock* mechanism on the shift rails prevents the engagement of two gears at the same time.
-

Manual Transmission/Driveline

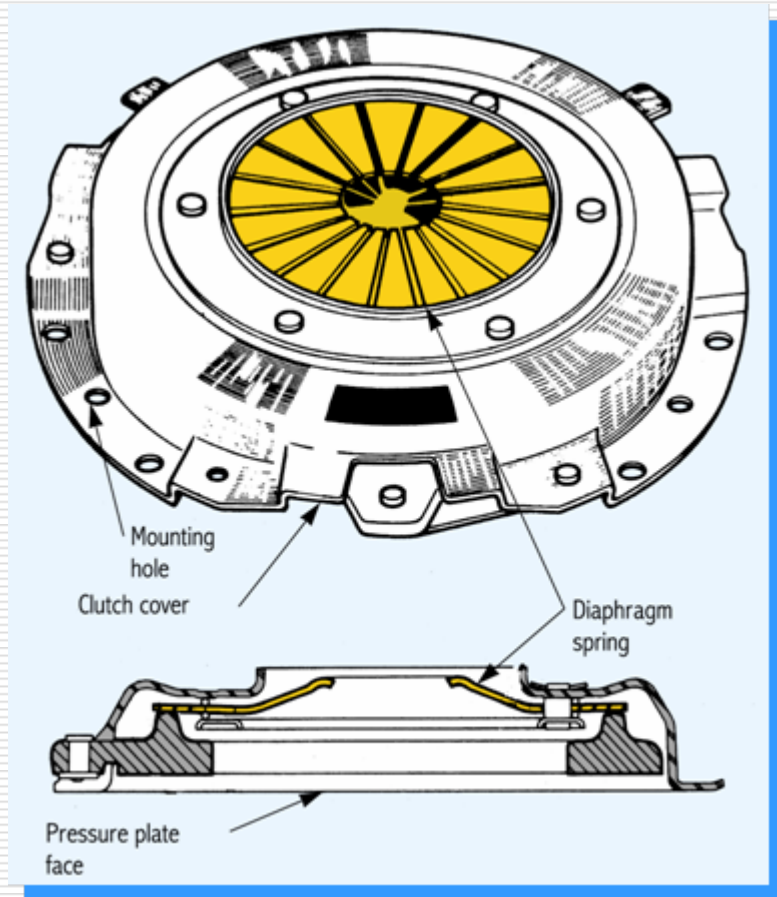
- A *transaxle* is a combined transmission and differential that provides a compact assembly that is suitable for front-wheel drive vehicles and some rear-wheel drive vehicles.
 - An *engine support fixture* is usually the preferred method of supporting the engine during the removal and installation process.
-

Manual Transmission/Driveline

- Technician A states engines with automatic transmissions use a flexplate in place of a flywheel. Technician B states if you machine a flywheel, you must use a shim between the flywheel and engine the same thickness as the amount of material removed. Who is correct? Tech A, Tech B, Both Correct, Both Incorrect
-

Manual Transmission/Driveline

- A Belleville spring may be called a *clutch diaphragm spring*.



Manual Transmission/Driveline

- ❑ Many clutches have a *constant-running release bearing* that is designed to maintain light contact with the release levers when the clutch is engaged.
 - ❑ A *hydraulic line* is connected from the master cylinder to the slave cylinder.
 - ❑ *Clutch slipping* occurs when the engine speed increases without the proper corresponding increase in vehicle speed.
-

Manual Transmission/Driveline

- ❑ *Clutch chatter* is a shuddering action as the clutch engages.
 - ❑ A *dragging clutch* occurs when the clutch pedal is fully depressed but the clutch disc does not completely release.
-

Manual Transmission/Driveline

