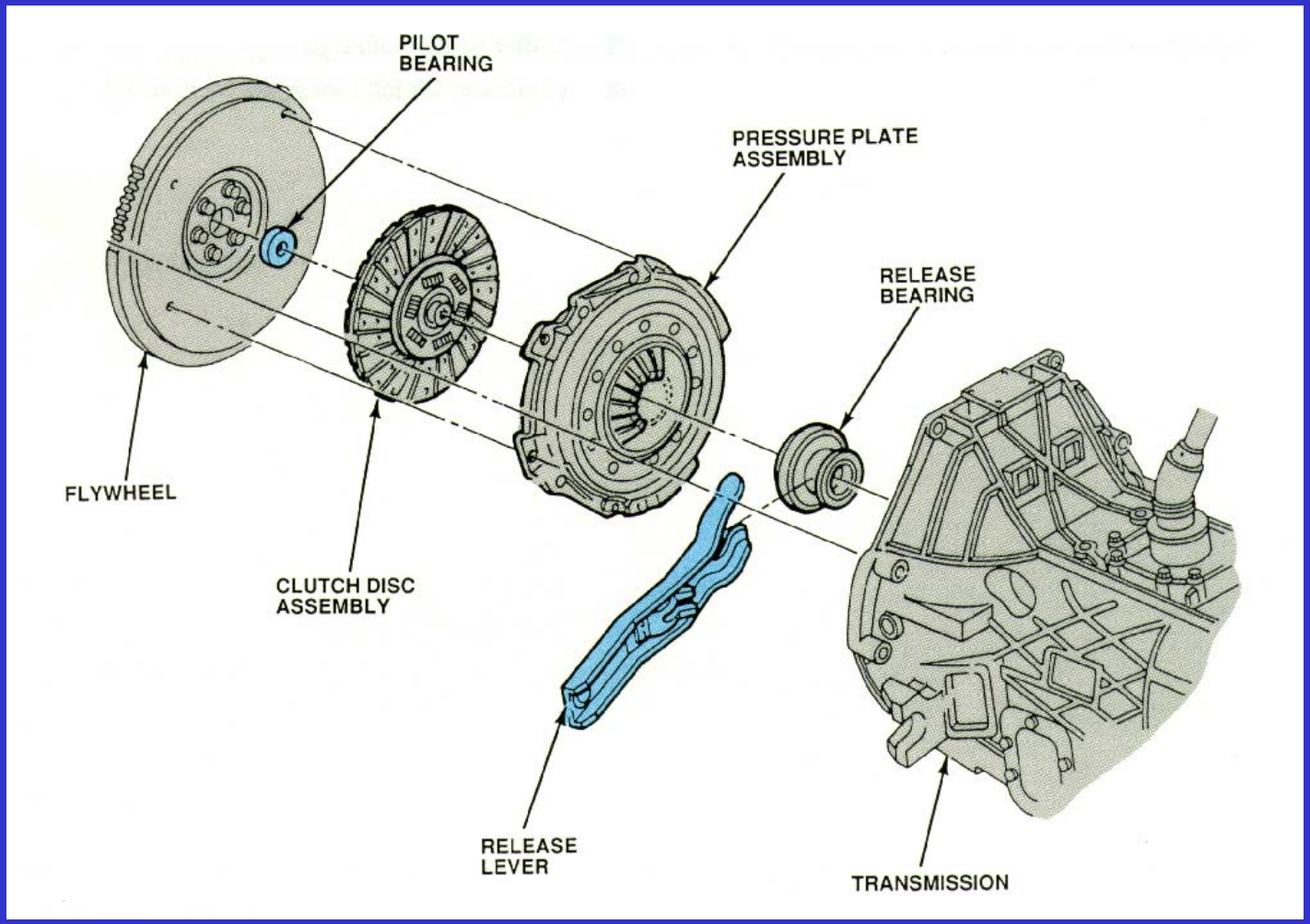
Clutch Systems

Brookhaven College

Clutch Components



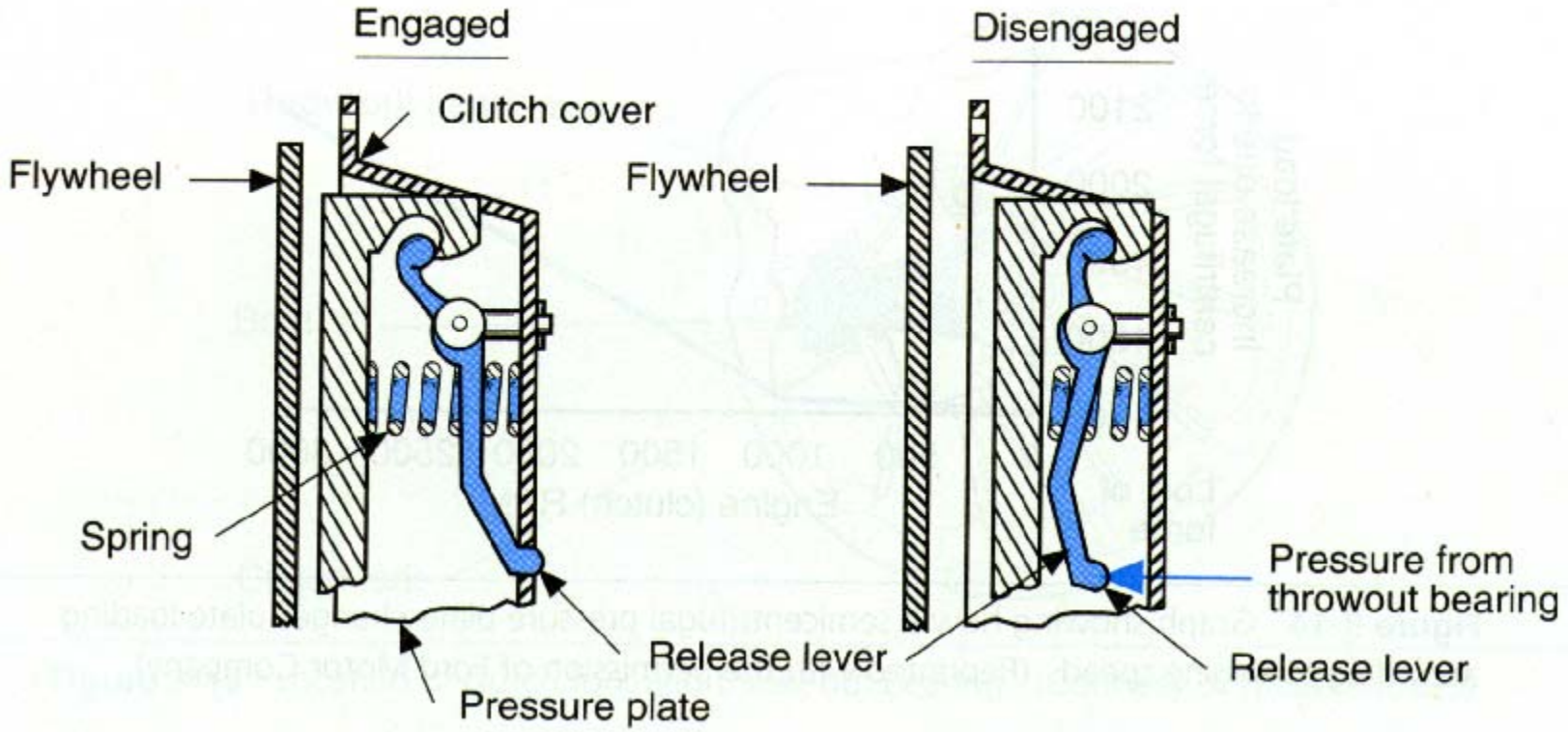
Flywheel

- Dampens engine vibration
- Provides inertia between power strokes
- Friction surface and heat sink for one side of the clutch disc
- Dual-Mass flywheels
  - further reduce crankshaft oscillations with a spring and damper system

Pressure Plate

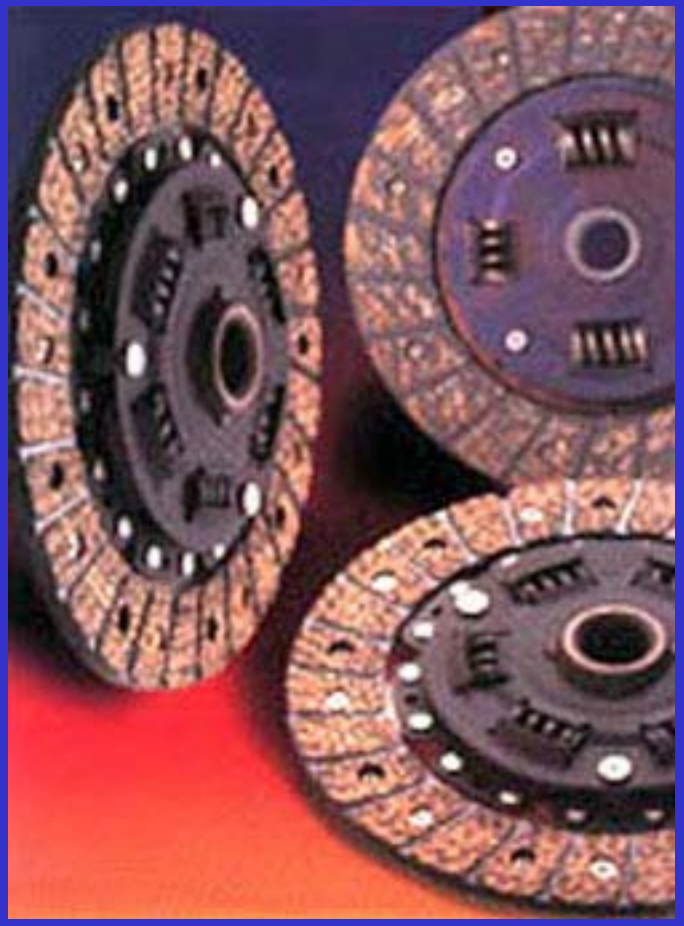
- Squeezes clutch disc between flywheel and pressure plate
- Diaphragm or Belleville spring type
- Multiple coil spring
- Semicentrifugal

Pressure Plate Operation

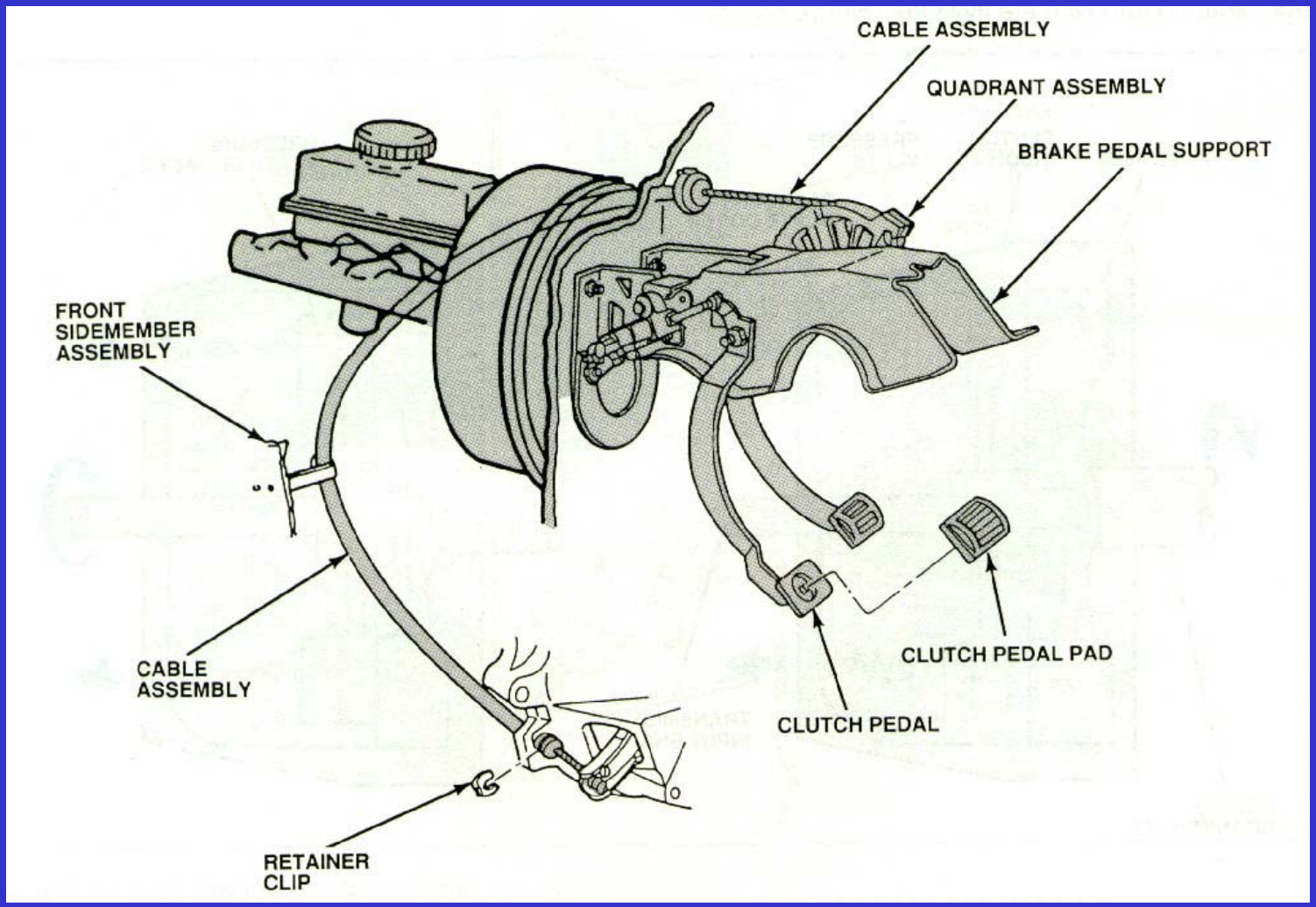


Clutch Disc

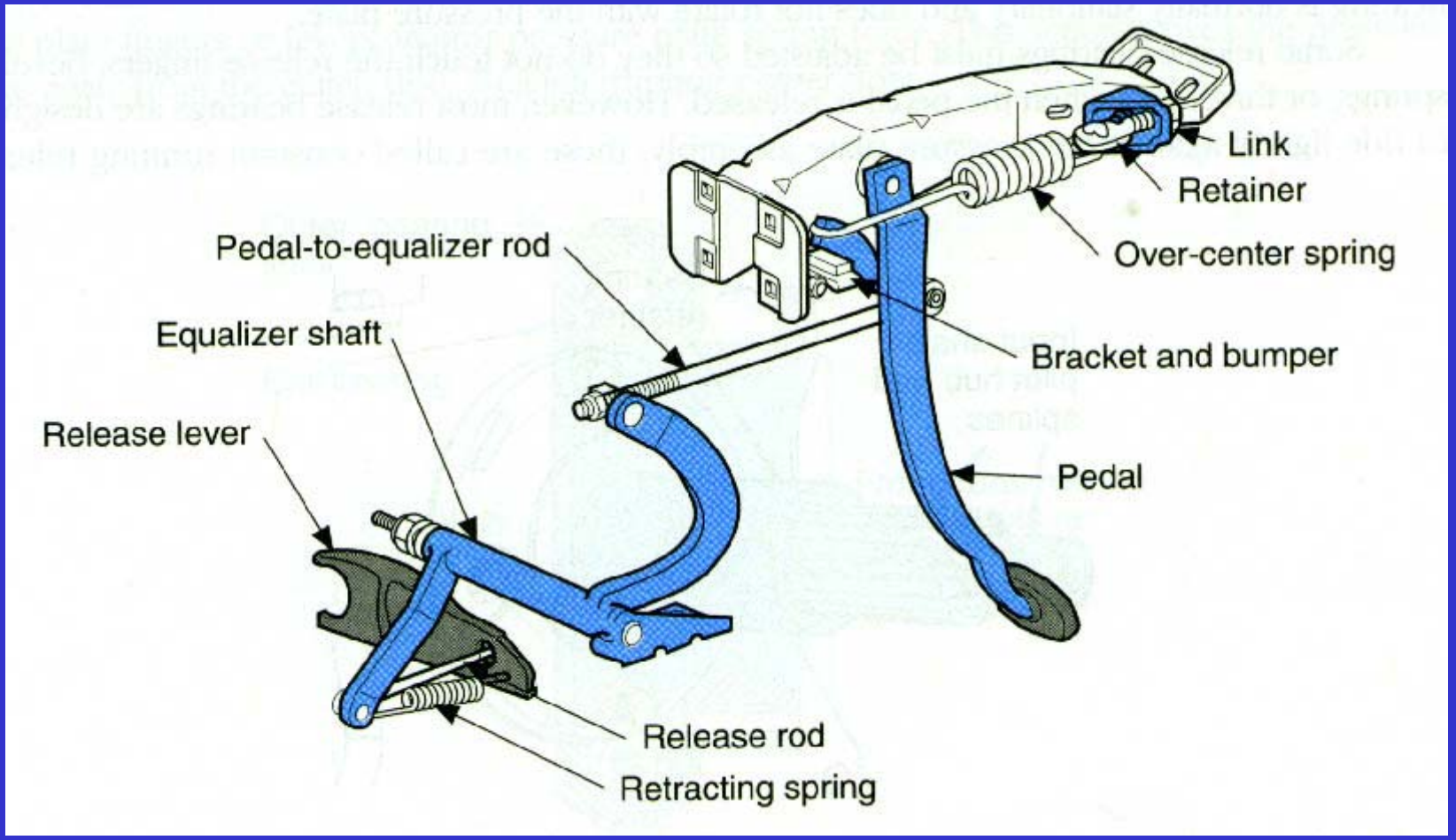
- Splined to Input Shaft
- Friction Material
  - molded or woven
  - paper based and ceramic materials
- Wave Springs
- Torsional Damper Springs



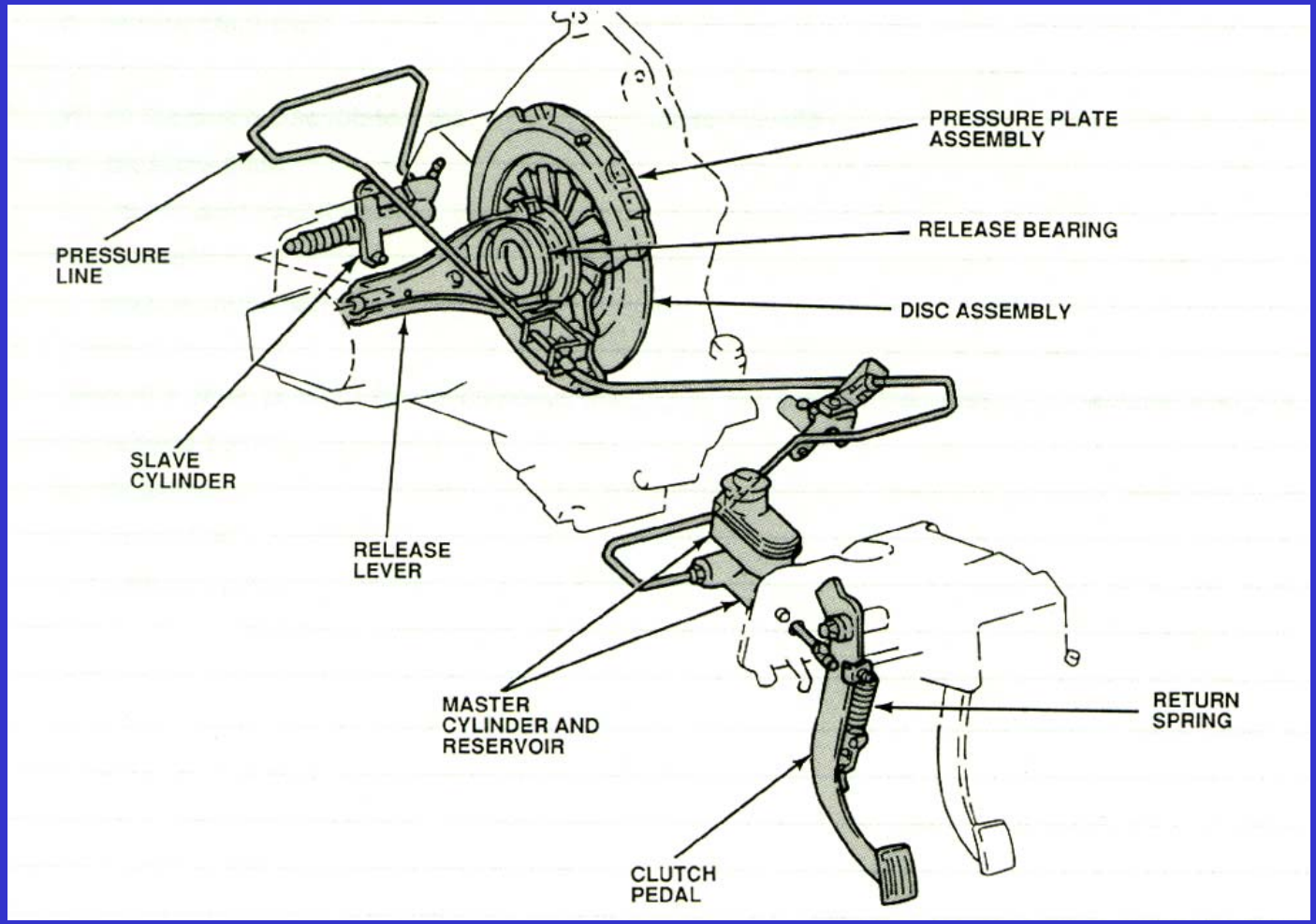
Cable Clutch Linkage



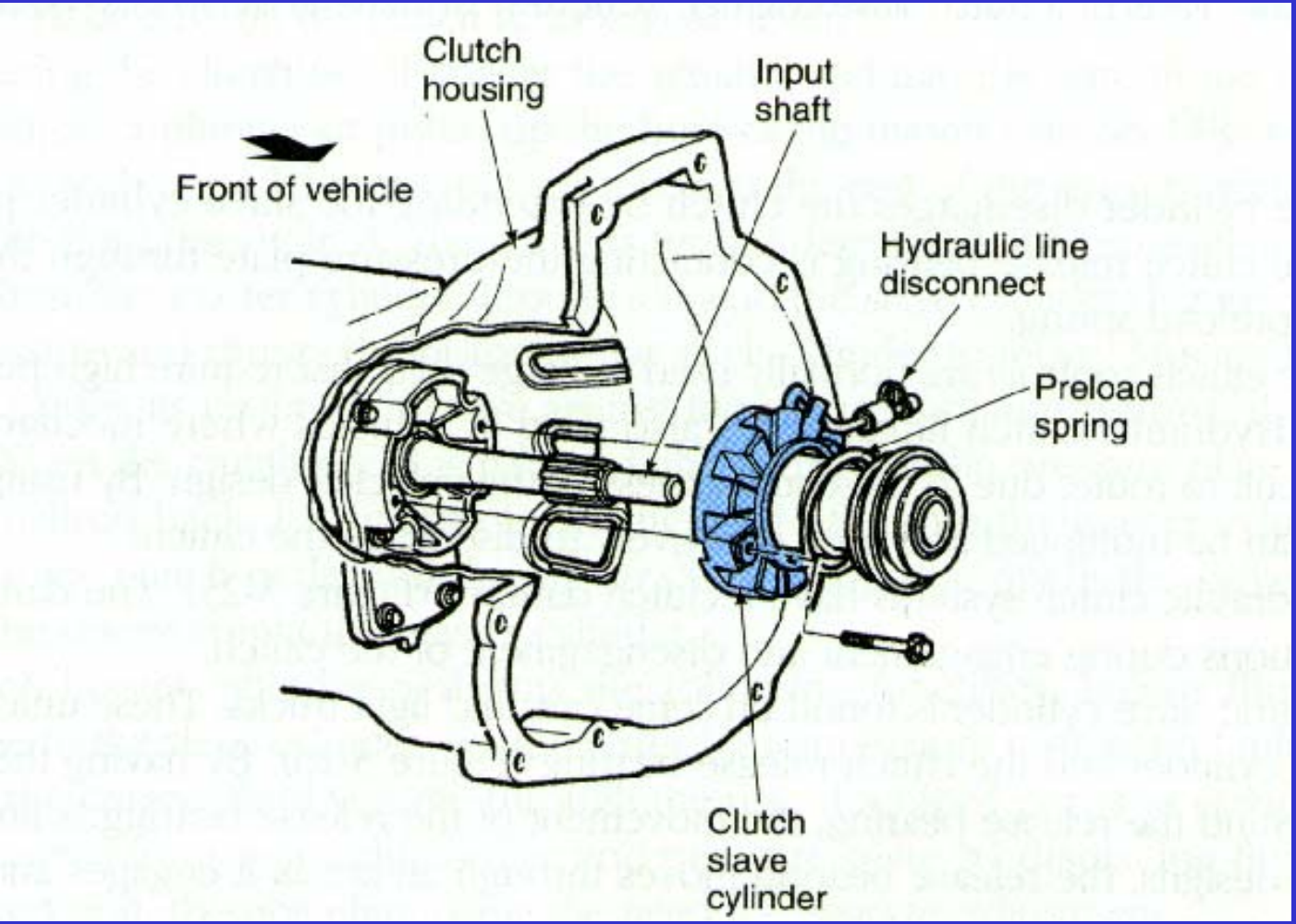
Mechanical Clutch Linkage



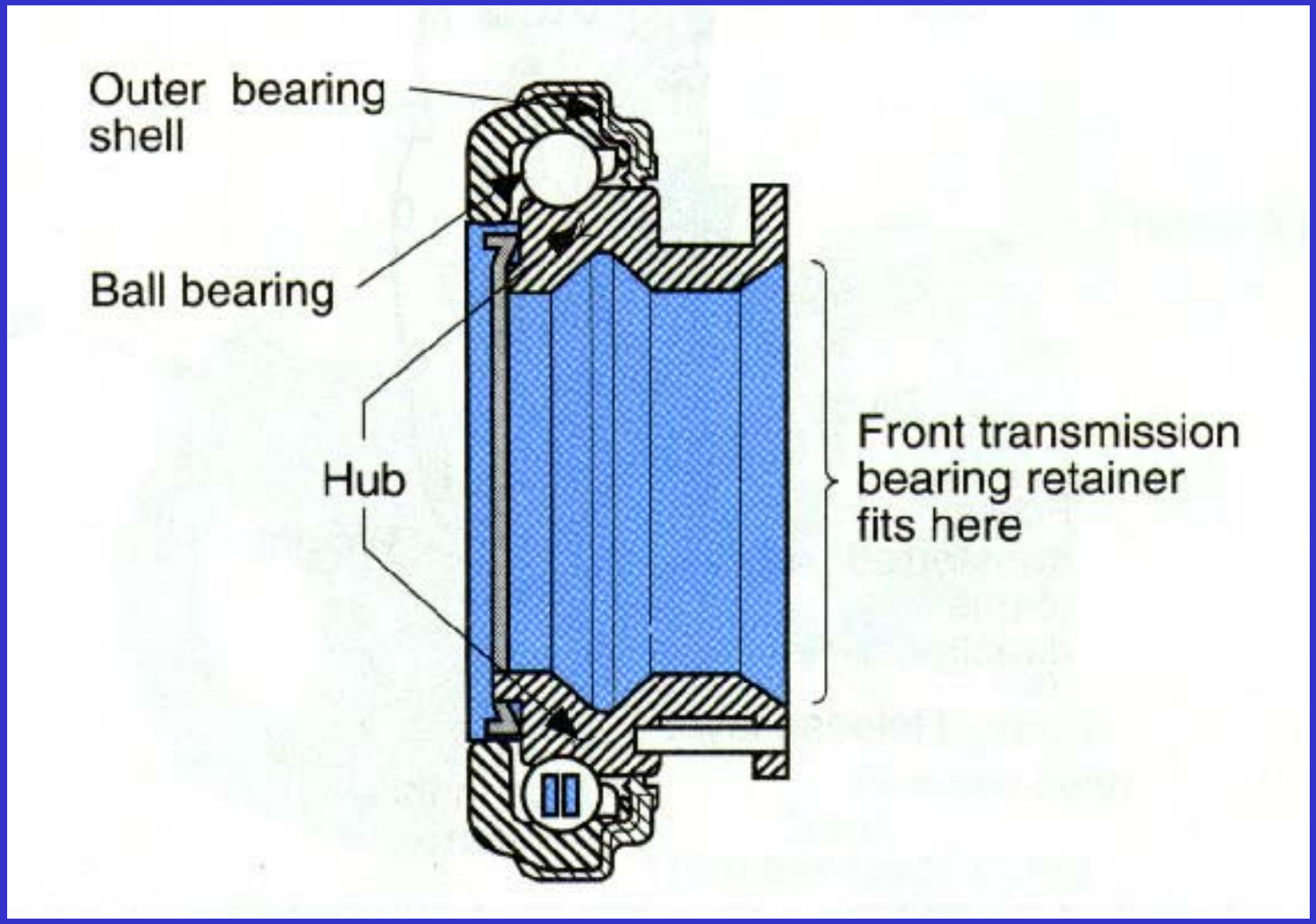
Hydraulic Clutch Linkage



Concentric Slave Cylinder



Clutch Release Bearing



Release Bearing Operation