

plates in the housing. A large return spring keeps the piston retracted against the housing. There is enough clearance in the clutch assembly to permit the friction discs to rotate when a clutch is not applied. When hydraulic pressure is applied to the piston, the friction discs and separator plates are pressed together and the clutch assembly rotates as a single unit. The hydraulic pressure for the clutches is 690 to 860 kPa (100 to 125 psi) measured at the test port for the clutch regulator.

An orifice in each clutch piston permits a small continuous oil flow from the pressure chamber in the clutch. This orifice makes sure that the clutch will completely

release. The orifice makes sure oil does not stay in the pressure chamber of the clutch because of centrifugal force after the clutch is released.

Both clutch shafts in the transmission have an oil passage that connects the clutch assembly to the control valve. There are also oil passages in the transmission housing and the clutch assemblies for the lubrication and cooling of the clutch assemblies. Seal rings on one end of each clutch shaft seal the oil passages so that oil can flow from the passages in the transmission housing to the passages in the clutch shafts.

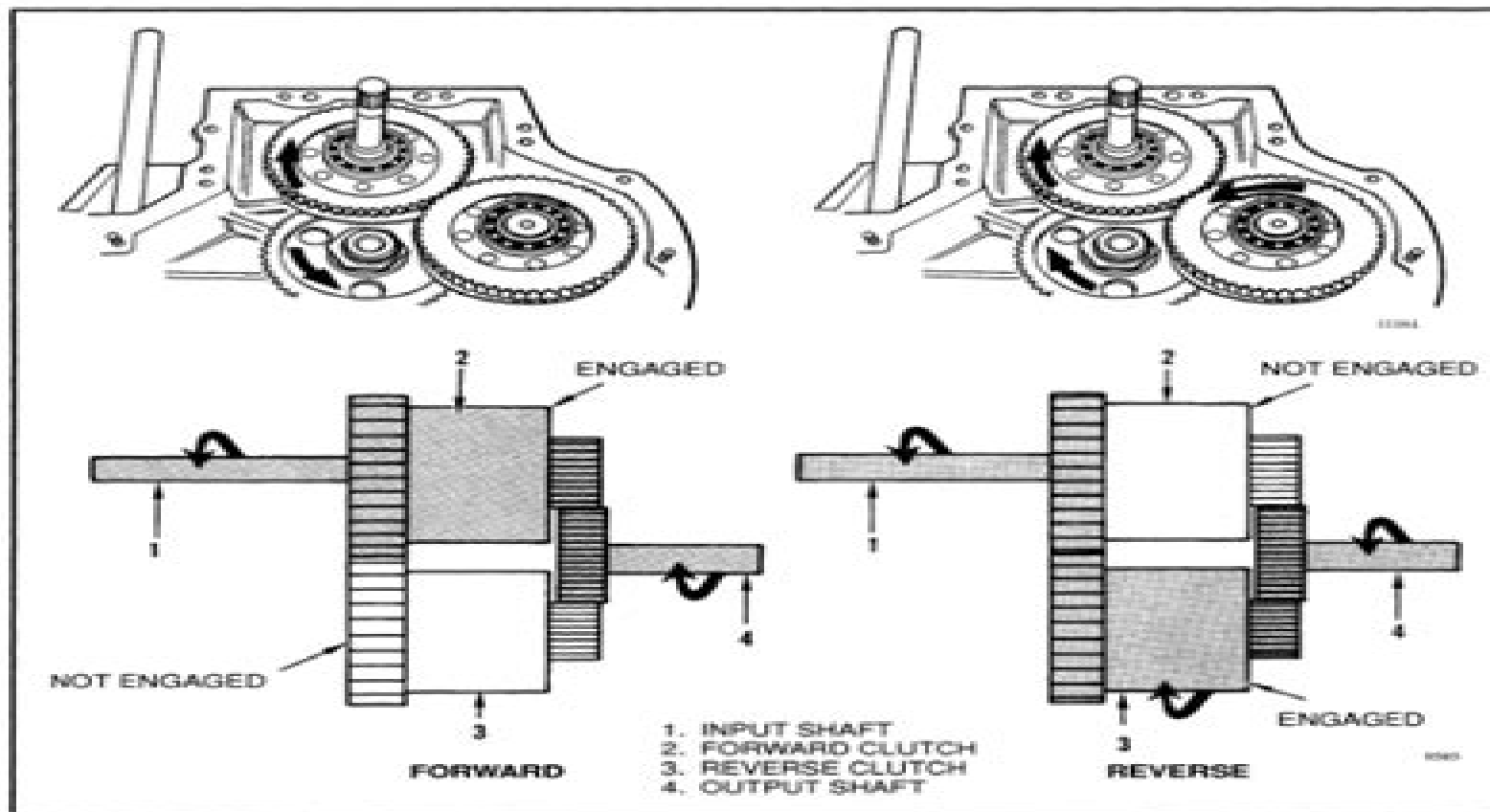


FIGURE 8. CLUTCH OPERATION

Hyster 50 Service Manual Transmission

Michael Brown

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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