

The Basic Laws of Planetary Gear Sets

INPUT	CARRIER	RING	SPEED	TORQUE	DIRECTION
INPUT	OUTPUT	HELD	MAXIMUM REDUCTION	INCREASE	SAME AS INPUT
HELD	OUTPUT	INPUT	MINIMUM REDUCTION	INCREASE	SAME AS INPUT
OUTPUT	INPUT	HELD	MAXIMUM INCREASE	REDUCTION	SAME AS INPUT
HELD	INPUT	OUTPUT	MINIMUM INCREASE	REDUCTION	SAME AS INPUT
INPUT	HELD	OUTPUT	REDUCTION	INCREASE	OPPOSITE OF INPUT
OUTPUT	HELD	INPUT	INCREASE	REDUCTION	OPPOSITE OF INPUT

NOTE:

When any two members are held together speed and direction are same as input. The ratio will be 1:1.

When one planetary component is held and another is rotated, or "input," the third member functions as output member.

Depending on which components are held and input, the planetary gear set can develop various output ratios.

- Decrease input speed
- Increase input speed
- Provide direct, 1:1 drive
- Create reverse

Clutches



Clutches provide the input and holding power planetary gear sets require for operation.

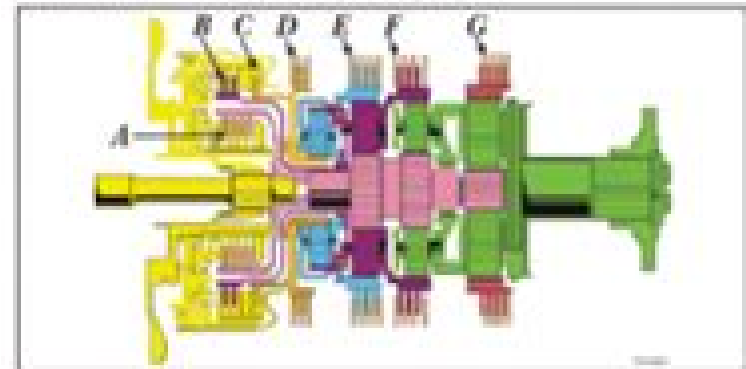
Clutches in the HD Transmission can be either rotating or stationary.

Rotating clutches supply rotational input to other shafts or components.

The HD transmission's rotating clutches are located in the rotating clutch module.

- Stationary clutches hold components in place, allowing other components to be input and output.
- The HD has three stationary clutches that hold planetary gear components.
- Clutches consist of two intermeshed sets of clutch plates and a piston.
- Two types of plates are used - "flex," "flexible," plated and steel, "reaction" plates.
- Plates are alternated in the clutch assembly so that they sandwich each other.
- One set of clutch plates is splined to an inner component (the housing).
- Even though the plates are intermeshed, they rotate independently, when not applied.
- The clutch assembly has a piston and spring assembly.
- When the clutch is applied, the piston forces the intermeshed plates together as one unit.
- When the clutch is released, the spring assembly returns the piston.
- If one of the components splined to the clutch plates is stationary, the clutch is a "stationary clutch".
- If both components splined to the clutch plates are capable of rotating the clutch is a "rotating clutch."

Exemplar Transmission Planetary Configuration



The Exemplar Transmission has four sets of planetary gear sets.

Each Stationary Clutch assembly (S.C.A.) has a corresponding ring gear which is held stationary when the clutch is applied.

Rotating Clutches A,B,C are connected to the turbine shaft when applied. They apply a rotational input into the Transmission.

Bell B40d Service Manual

Chilton Book Company



Bell B40d Service Manual:

Bell Model 222 Maintenance Manual Bell Helicopter Textron,1981 **Bell Model 214B Series Maintenance Manual**
Bell Helicopter Textron,1975 *Bell Model 222U Maintenance Manual* Bell Helicopter Textron,1992 *Service Manual*
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Motor Corporation,1976 *112 Conventional Service Manual* ,1989 *Volkswagen Beetle, Karmann Ghia Official Service*
Manual, Type 1 Volkswagen of America, Inc,1972 *The Volkswagen Beetle and Karmann Ghia Service Manual Type 1* 1966
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