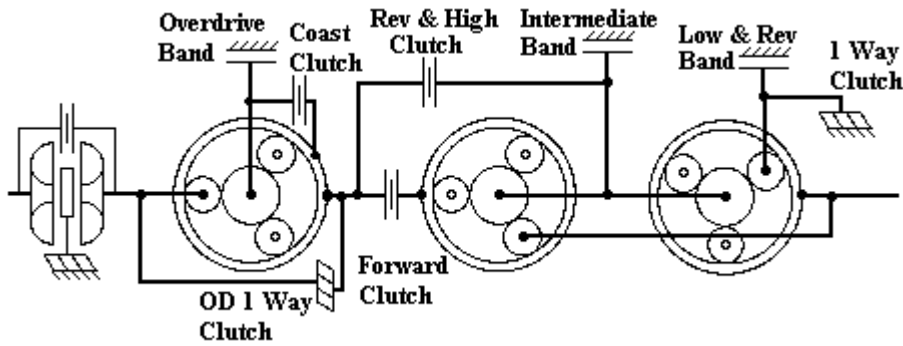


Student Name _____

KEY

Date _____

Directions: The clutch and band arrangement for a Ford 4R44E, 5R55E (A4LD) is shown below. Locate the driving and reaction members for each forward and reverse speed. Circle the names of the input apply devices. Draw a box around the names of the reaction apply devices.



1. 1st gear: The input apply devices are the OD 1 Way Clutch & Forward Clutch; they drive the OD Carrier & Forward Ring Gear.

Color the input apply devices and planetary members blue.

The reaction apply device is the 1 Way Clutch; it holds the Reaction Carrier.

Color the reaction apply device and planetary member red.

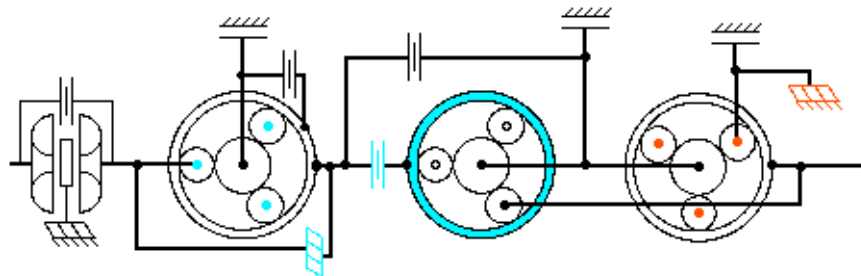
What are the planet gears in the OD gearset doing?

Ring R, Carrier R

Sun R, Pinions L

What are the planet gears in the input gearset doing? Ring R, Carrier R, Sun R, Pinions R

What are the planet gears in the reaction gearset doing? Ring R, Carrier L, Sun R, Pinions R



2. 2nd gear: The input apply devices are the OD 1 Way Clutch & Forward Clutch; they drive the OD Carrier & Forward Ring Gear.

Color the input apply devices and planetary members blue.

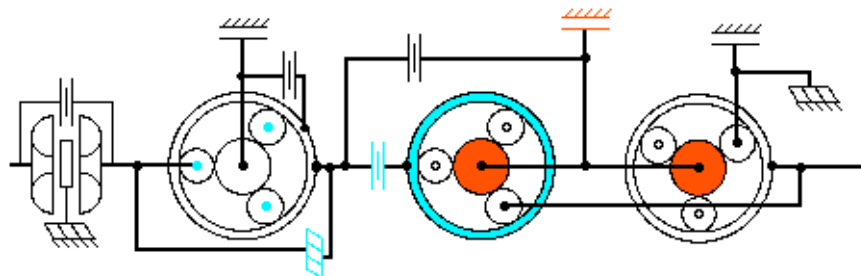
The reaction apply device is the Intermediate Band; it holds the Sun Gears.

Color the reaction apply device and planetary member red.

What are the planet gears in the OD gearset doing? Ring R, Carrier R, Sun R, Pinions L

What are the planet gears in the input gearset doing? Ring R, Carrier R, Sun L, Pinions W

What are the planet gears in the reaction gearset doing? Ring R, Carrier R, Sun L, Pinions W



3. 3rd gear: The input apply devices are the **OD 1 Way Clutch, Forward Clutch** & **Direct Clutch**; they drive the **OD Carrier, Forward Ring Gear** & **Sun Gears**.

Color the input apply devices and planetary members blue.

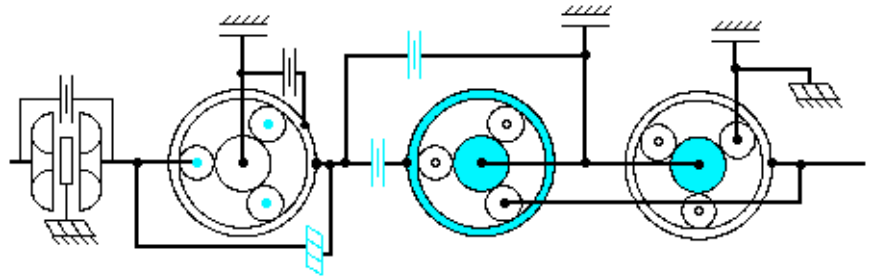
What are the planet gears in the OD gearset doing?

Ring **R**, Carrier **R**, Sun **R**,
Pinions **L**

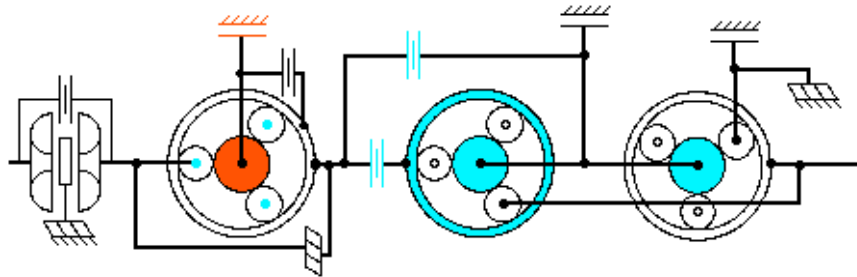
What are the planet gears in the input gearset doing?

Ring **R**, Carrier **R**, Sun **R**, Pinions **L**

What are the planet gears in the reaction gearset doing? Ring **R**, Carrier **R**, Sun **R**, Pinions **L**



4. 4th gear: The input apply devices are the **OD 1 Way Clutch, Forward Clutch** & **Direct Clutch**; they drive the **OD Carrier, Forward Ring Gear** & **Sun Gears**.



Color the input apply devices and planetary members blue.

The reaction apply device is the **OD Band**; it holds the **OD Sun Gear**.

Color the reaction apply device and planetary member red.

What are the planet gears in the OD gearset doing? Ring **R**, Carrier **R**, Sun **L**, Pinions **R**

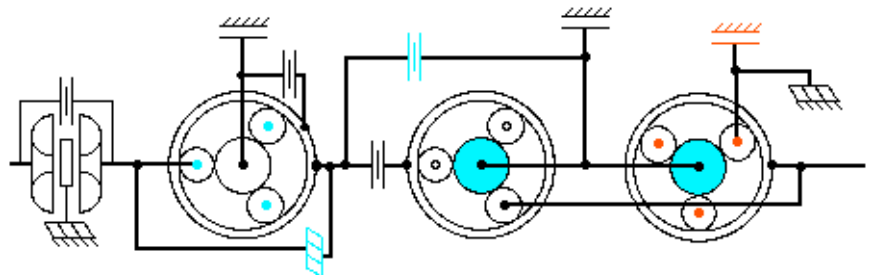
What are the planet gears in the input gearset doing? Ring **R**, Carrier **R**, Sun **R**, Pinions **L**

What are the planet gears in the reaction gearset doing? Ring **R**, Carrier **R**, Sun **R**, Pinions **L**

5. Reverse gear: The input apply devices are the **OD 1 Way Clutch** & **Direct Clutch**; they drive the **OD Carrier** & **Sun Gears**. Color the input apply devices and planetary members blue.

The reaction apply device is the **Low & Rev Band**; it holds the **Reaction Carrier**.

Color the reaction apply device and planetary member red.



What are the planet gears in the OD gearset doing? Ring **R**, Carrier **R**, Sun **R**, Pinions **L**

What are the planet gears in the input gearset doing? Ring **R**, Carrier **R**, Sun **R**, Pinions **R**

What are the planet gears in the reaction gearset doing? Ring **R**, Carrier **L**, Sun **R**, Pinions **R**