

**SAE RECOMMENDED  
PRACTICE J646**

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**Planetary Gear(s)-  
Terminology – SAE J646 AUG83**

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**PLANETARY GEAR(S)—  
TERMINOLOGY—SAE J646 AUG83**

**SAE Recommended Practice**

Report of the Hydrodynamic Drive and Transmission Committee, approved September 1955, last revised by the Transmission and Drivetrain Committee October 1969, reaffirmed without change August 1983.

The following figures illustrate in simplified form the more common planetary gear arrangements in order to establish applicable terminology. Gear ratio is the numerical ratio of input to output speed.

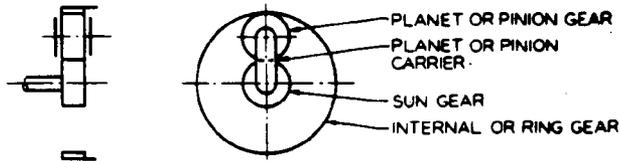


FIG. 1—SIMPLE PLANETARY ARRANGEMENT

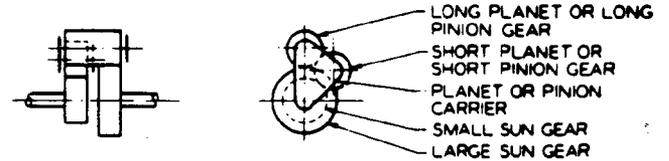


FIG. 3—EXTERNAL PLANETARY ARRANGEMENT

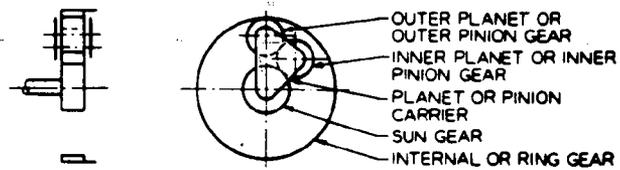


FIG. 2—DUAL PLANETARY ARRANGEMENT

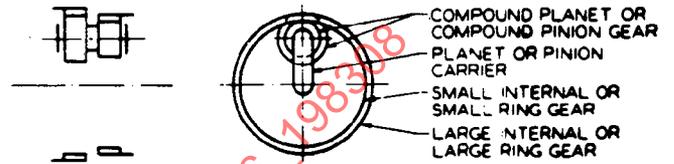


FIG. 4—COMPOUND PLANETARY ARRANGEMENT

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