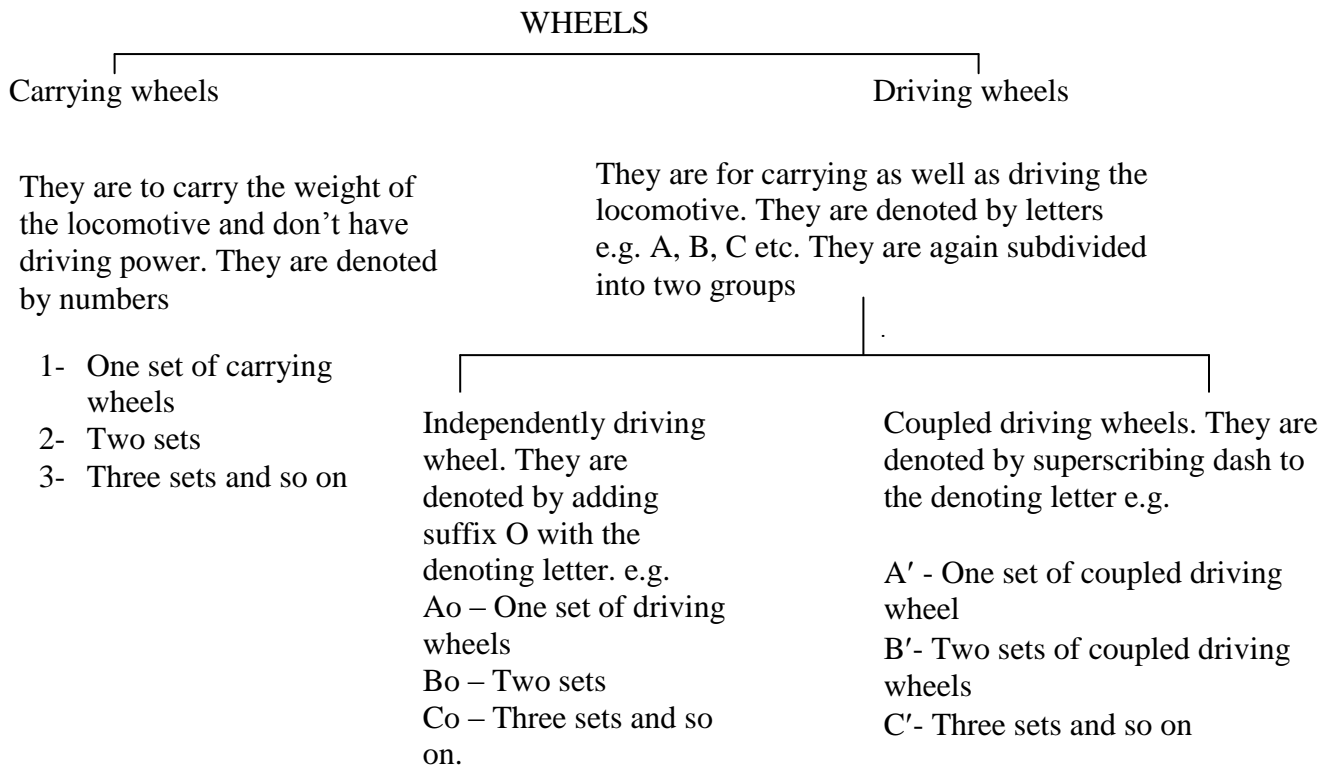


## AAR CLASSIFICATION

AAR stands for Association of American Railroads. AAR classification deals with the classification of locomotives based on wheel arrangement. This chapter will be dealt in two parts

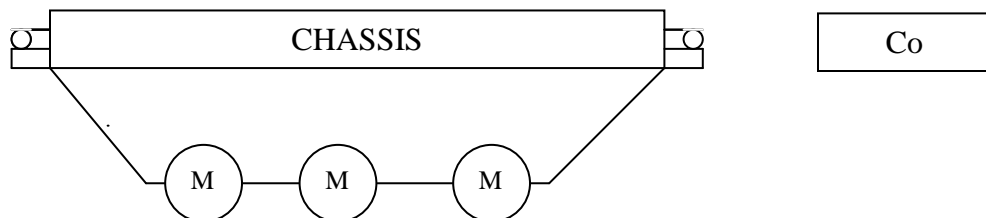
- Classification/ codification of wheels
- Arrangement of wheels in the locomotive

### Classification of wheels

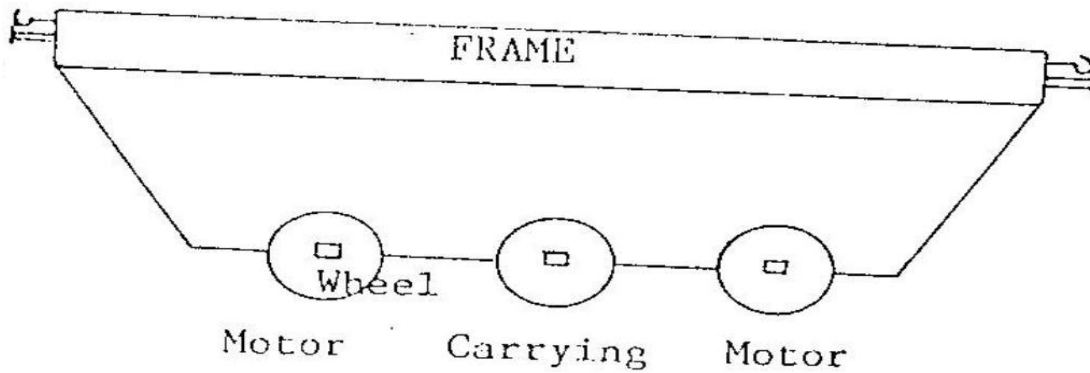
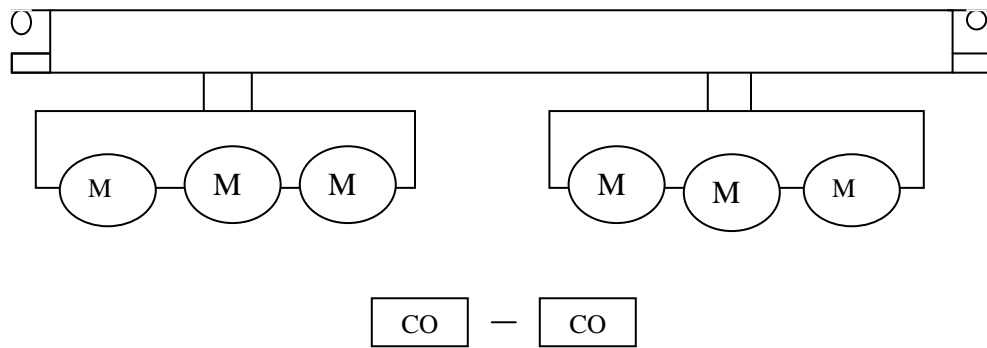
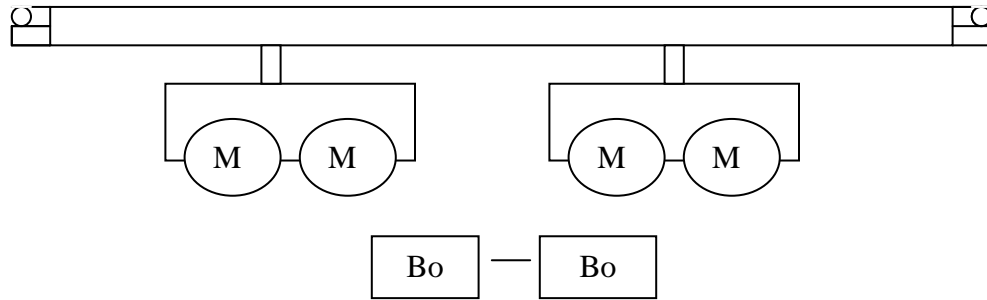


### Arrangement of wheels in the locomotive

1. Rigid Frame locomotive In rigid frame type of wheel arrangement chassis is directly mounted on wheels. They are represented in single block, as shown in the figure below:

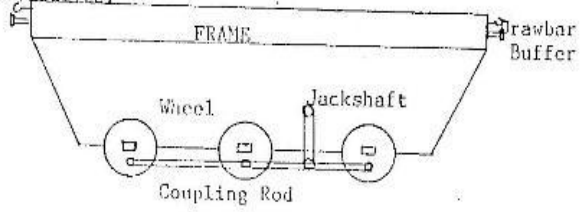


2. Bogie type Locomotive In bogie type wheel arrangement wheels are first arranged into bogies and then chassis is mounted on bogies. It provides greater flexibility than rigid frame arrangement for negotiating curves. They are represented in two blocks separated by (-) sign.

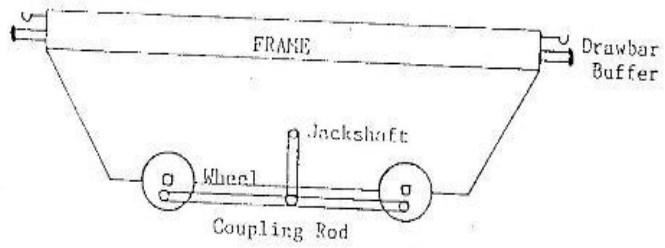


FINAL CLASSIFICATION COMBINING BOTH

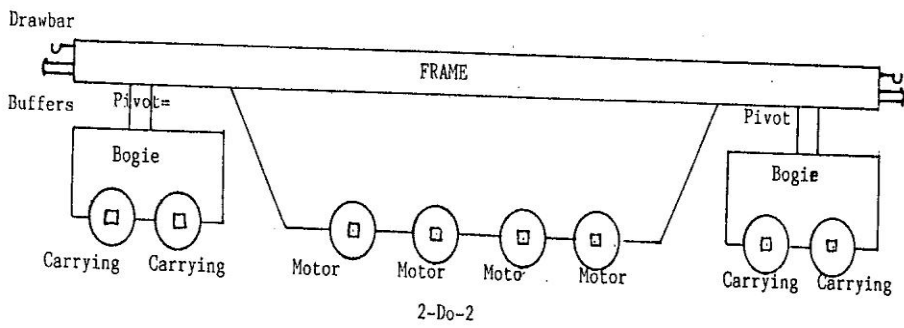
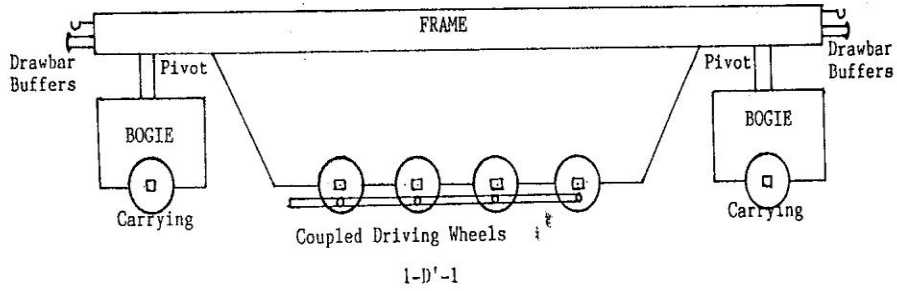
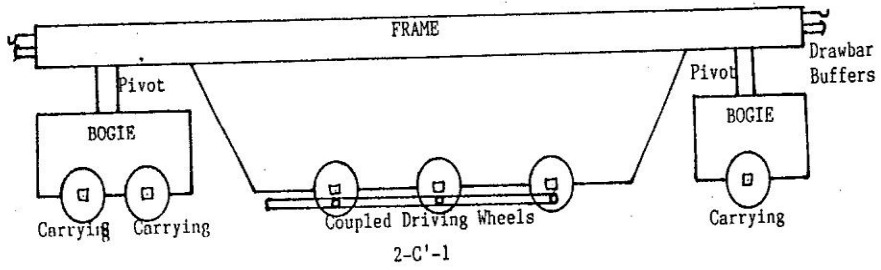
Rigid Frame Locomotives.



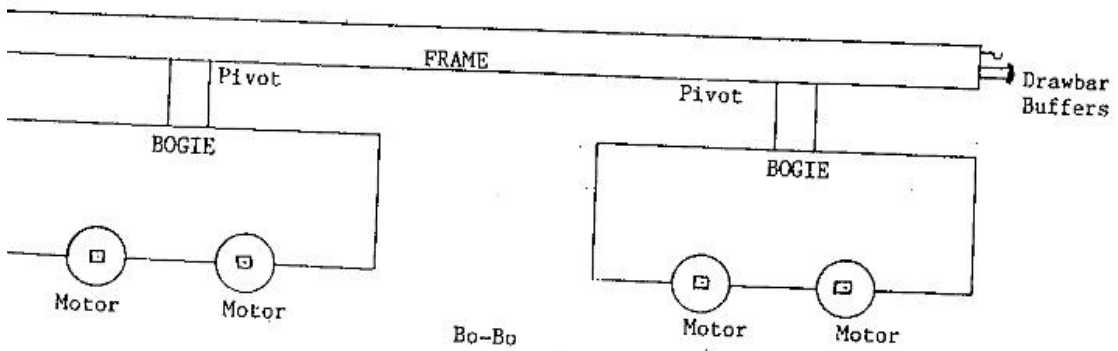
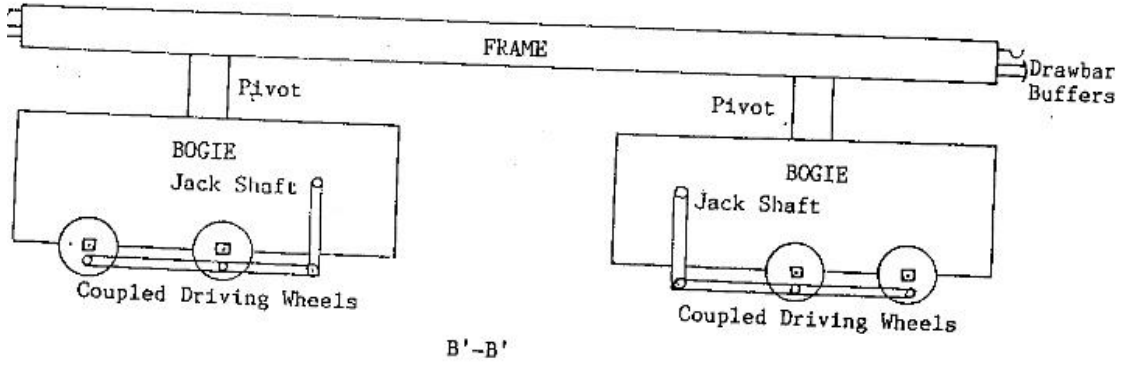
C'

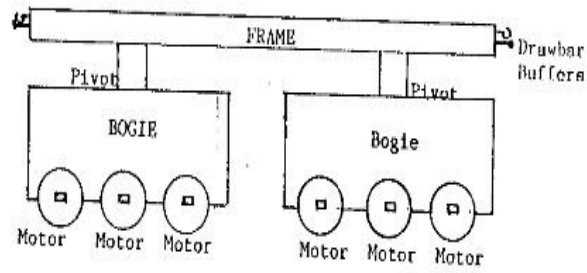


B'



BOGIE TYPE LOCOMOTIVE





Co-Co

Motor Carrying Motor

Motor Carrying Motor

Ao1Ao-Ao1Ao

Carrying Motor Motor

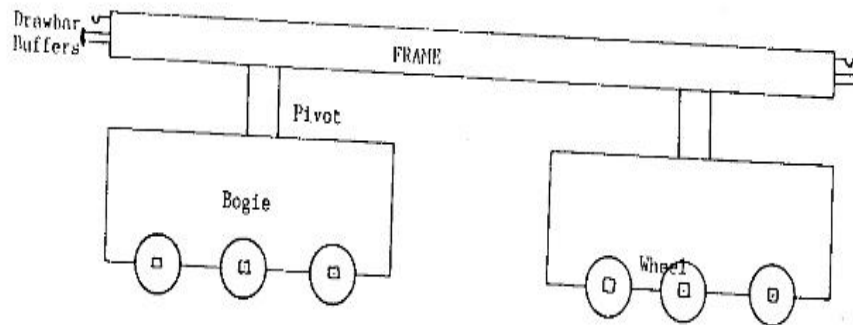
Motor Motor Carrying

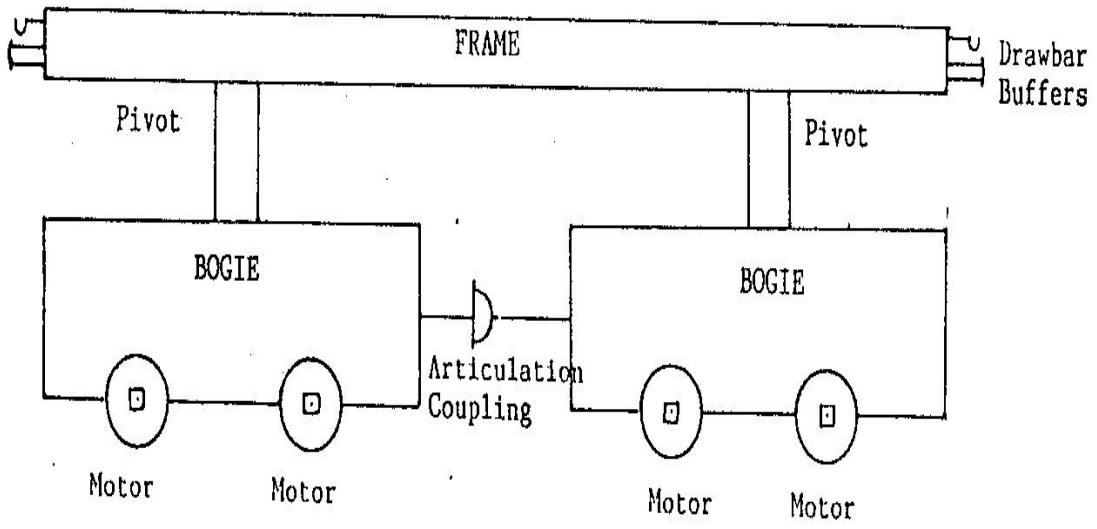
1Bo-Bo1

Motor Motor Carrying

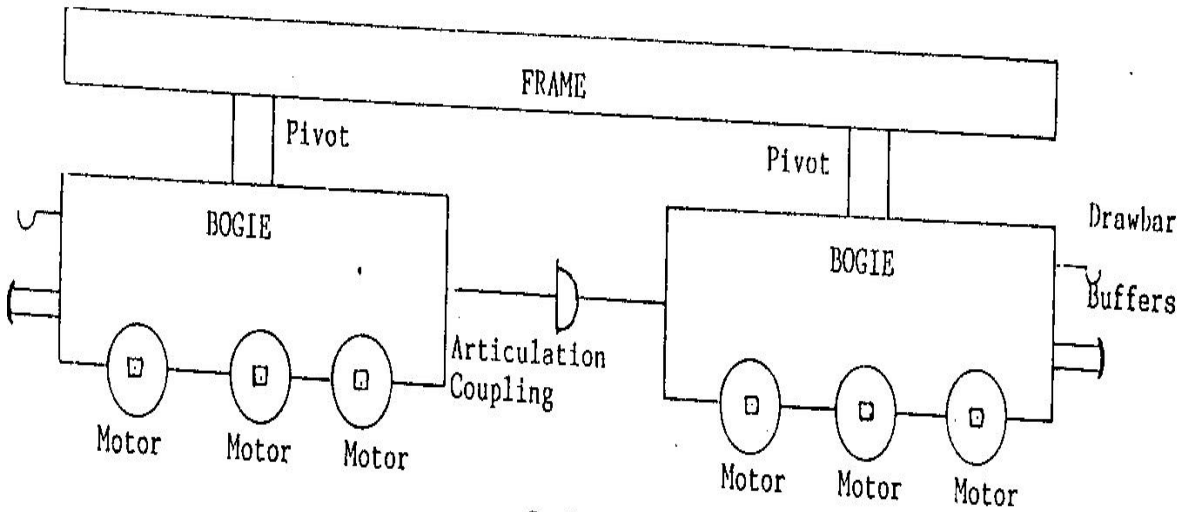
Carrying Motor Motor

Bo1-1Bo





Bo+Bo



Co+Co