CHARGE AIR COOLER BASIC CONNECTION TYPES

Identification is important as often there is a hose bead model of a charge air cooler that is similar to a flange model. Remember the difference is how they are clamped.

Hose Bead Connection
Picture Examples Below Show typical Hose Bead Connections:

- Typical of the majority of charge air cooler
- Silicone rubber hose slides over connection, then clamped

- Typically has smooth round bead in from the connection end
- Often the bead is part of the cast part

Hose Bead Connection

Flanged Connection
Picture Examples Below Show typical Hose Bead Connections:

- Less common than the hose type
- Flanged connections are used with a mating Flange air intake line or tube

- Flange to Flange connections connect with a v-type clamp that pulls the two metal flanges together
- Flanged connection types are not interchangeable with hose bead models

Note: Flange connections have flat machined surfaces