

TIG Torch Parts

The TIG torch consists of several key components:

1. **Torch Body:** This is the main housing of the TIG torch, often made of heat-resistant materials like rubber or plastic. It houses the other components and provides insulation.
2. **Collet Body:** This part holds the tungsten electrode and helps to secure it in place within the torch.
3. **Gas Lens:** This is the part that directs the flow of shielding gas to the weld pool. It helps to protect the weld from atmospheric contamination.
4. **Tungsten Electrode:** This is the most crucial part of the TIG torch and is responsible for creating the electric arc. It needs to be carefully chosen and ground to the appropriate taper.
5. **Ceramic Cup:** This is the outer part of the gas nozzle and helps to further protect the welding area from contamination, as well as to control the flow of shield gas.
6. **Back Cap:** This is the part that screws into the back of the torch body. The back cap puts pressure on the collet body to secure the tungsten within the torch.

Understanding these components is essential for proper TIG welding technique and maintaining the torch.

