The Ozone Cycle

The processes involved in the ozone cycle include:

1. **O + O3 → 2 O2**: This is the reaction where one oxygen atom (O) combines with ozone (O3) to form two oxygen molecules (2 O2). This reaction is crucial for maintaining ozone levels in the stratosphere, as ozone absorbs harmful ultraviolet (UV) radiation from the sun, protecting life on Earth.

2. **2 O2 → O + O3**: This reaction replenishes ozone molecules by breaking down two oxygen molecules (2 O2) into one oxygen atom (O) and one ozone molecule (O3). This cycle is essential for the continuous formation and maintenance of the ozone layer.