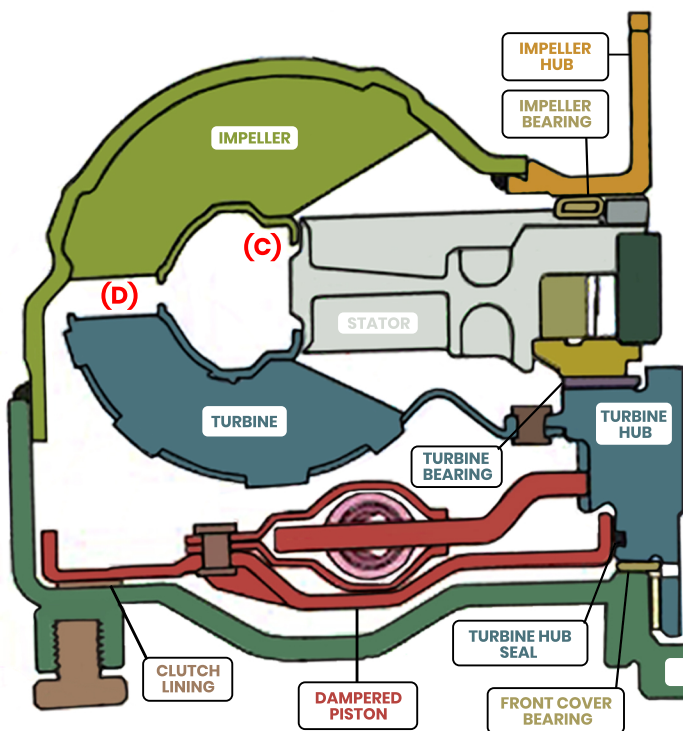


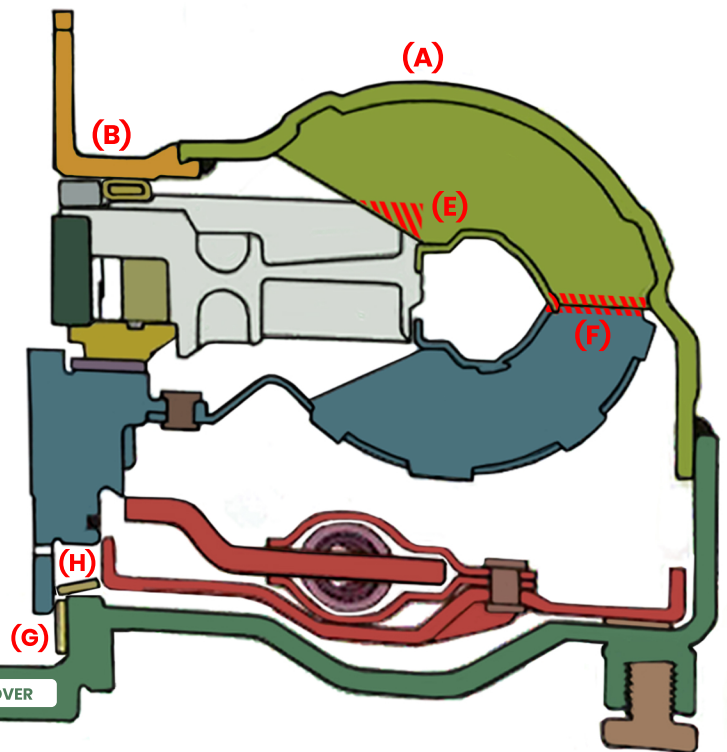
TORQUE CONVERTER BALLOONING BASICS

The pressure inside a lockup torque converter is controlled by valve systems that are located outside the torque converter. Torque converter ballooning is not caused by the converter itself.

ORIGINAL



BALLOONED



One way to check if a converter is ballooned would be to measure the total height of the assembled converter. Each type of converter should be a specific height. You can see in the above diagram that the converter has a taller height after ballooning.

You can also see that the height from the crest of the **impeller** (A) to the bottom surface of the **impeller hub** (B) decreases when the converter is ballooned.

The original converter has clearance between both the **impeller** and the **stator** (c), and also between the **impeller** and **turbine** (d).

The ballooned converter has sustained catastrophic damage. This happens when the **impeller**, **stator** (E), and **turbine** (F) make contact with each other. This damage occurs because these three components are all rotating at different speeds.

In the ballooned scenario above, the **turbine hub** has moved away from the **dampened piston** and **front cover**, and has created excessive clearance between itself and the **front cover** (G). This can dislodge the **front cover bearing** (H), which may be able to be seen when looking into the converter.

In an alternate ballooned scenario, not pictured, the **turbine hub** does not move away from the **front cover**. Rather, the **stator** moves away from the **impeller**, creating excessive clearance between itself and the **impeller**. This can dislodge the **impeller bearing**, which may be able to be seen when looking into the converter.