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# Barrel Zone Override

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Barrel zone override  
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The barrel/screw combination on an extruder is a very complex heat transfer system. To understand something that seems as simple as a zone override can require a complete analysis of the system.


Just a few of the factors that can cause a zone override are screw design, barrel mass, thermocouple placement, cooling jacket fit, barrel/screw wear, head pressure, overall temperature profile, defective temperature controllers and inadequate cooling.

Before assuming that zone override is strictly a screw design problem, you should analyze the system as a complete heat transfer mechanism. Although the screw is responsible for most of the heat input, it cannot control the heat distribution.

See also:

- [Barrel thermocouple maintenance](#)
- [Extruders](#)
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