

TB009 (Rev1) - Coolant Splash on Servo Motors

Install a splash shield or buy a brand new servo motor

The servomotors provided with Centroid controls carry an IP65 rating from the manufacturer that means that the motors are liquid resistant - NOT liquid proof. The position of the servomotors on a machine, especially the Y-axis motor on knee mills, can allow flood coolant or machine way lube to pour directly onto the motor. Over a period of time, coolant or way lube seeps into the motor, rendering it totally useless. The only fix is to buy a new motor. Since this kind of damage is not covered under any warranty, the end user is forced to purchase a brand new motor.

A far easier solution is to install a simple sheet metal shield over the motor in order to prevent liquids and oils from pouring directly onto the motor. This shield doesn't have to be anything fancy. It just has to divert any liquids or oils away from the motor, must stay in place, and must not interfere with the motion of the axes, or catch any motor or limit switch cables. This simple shield will save you or your customer the cost of a brand new servomotor as well as the associated down time.

Document History

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