



## Service Bulletin

**Bulletin No. 05-06**  
**May 26, 2006**

**To: ITW Ransburg and ITW Automotive Finishing Distributors**  
**Subject: Turbodisk Motor Cartridges**

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Careful inspection of Turbodisk motor cartridges (P/N's 70879-406 (CW) & 70879-456 (CCW)) being returned to manufacturing for rebuild, has revealed that the bearing bores in the cartridge housing (part number 70875-00) wear to an out of tolerance dimension after multiple rebuilds. The run-out dimensional tolerance for the turbine cartridge motor shaft (P/N's 70897-01 & -02) has also been found to exceed factory specification in several of these returned motors.

This information is very important to those customers who may be rebuilding their own Turbodisk motor cartridges. Once the dimensional tolerances of these components have been exceeded, premature failure of the 70896-00 bearing (P/N 70896-00) can result.

Customer's who may be experiencing excessive motor failures, should return their motor cartridges to our manufacturing facility for inspection and rebuild. Components will be replaced during the rebuild process if they are found to be out of tolerance. Factory rebuilt motor cartridges are also re-balanced with state of the art balancing equipment, which is an important step for extending the service life of the motor bearings.

Customers that do not return their motor cartridges for the factory rebuild procedure should replace the motor cartridge bearing housing (P/N 70875-00) and motor shaft (P/N 70897-01 & -02) to increase time between necessary rebuilds. In addition, customers rebuilding their own cartridges will not benefit from the important operation of re-balancing, which is done when returned to manufacturing for rebuild.

It should also be noted that several "generic" brands of bearings are often found in motors returned to our manufacturing facility. The bearing (P/N 70896-00) used by ITW Ransburg is specifically designed for the Turbodisk application and utilizes proprietary grease, engineered to withstand the rigors of a painting environment. Customers rebuilding their own motor cartridges should only use ITW Ransburg supplied bearings.