

LOWER THRUST BEARING

Part Name: Lower Thrust Bearing

OEM Part Number: RXL1002-0044

Equipment: XL600, XL900, XL1100, XL1300, XL2000

XL600 / XL900 use the Optimum Crush® Part Number: 500517

XL1100 / XL1300 use the Optimum Crush® Part Number: 500309

XL2000 uses the Optimum Crush® Part Number: 500585

Purpose: Reduce Eccentric RTD Damage and Reduce Time to Change the Part

Interchangeability with OEM Part: The Optimum Crush® Lower Thrust Bearing is completely interchangeable. Due to the improved location of the Eccentric RTD, the excess RTD wire will need to be pulled tight the first time this new design is installed.

Background

Several mines have had trouble with damaging the RTD's under the Lower Thrust Bearing. There have also been reports of difficulty removing the RTD from the slot below Lower Thrust Bearing and some reports of crushed RTDs if the set screws (which are very small and easily lost) are tightened prior to torquing the Lower Thrust Bearing.

Clients have also noted excess time has been required to remove small hardware and wiring for the RTD when replacing a Lower Thrust Bearing. In the case of the XL2000 this time is especially longer to remove the bolted in shield.

Optimized Design

The Optimum Crush® Lower Thrust bearing has positioned the RTD's in a way that eliminates the need to secure the wire around the outer diameter of the Lower Thrust Bearing thus saving time when the component is changed. Locating the RTD within a drilled hole rather than a milled slot eliminates the possibility of the seizing or crushing the RTD when the Lower Thrust Bearing is torqued into position. The RTD's are both placed in line with the Pinion so that the wires can go straight down to the oil drain. The first time that the new Lower Thrust Bearing is installed it will be required to pull the wires tight so they do not get caught by the rotating pinion.

