



SERVICE BULLETIN

November 14, 1989

SERVICE BULLETIN 89-3A

SUPER LOOPS - JACTUATOR GEAR BOX

Several incidents of severe damage have been reported due to failure of the brass worm gear in the jactuator box. When the threads in the brass gear fail this allows the top section to drop, severely damaging the main section as well as the top section. This failure is due primarily to the wear in the threads of the brass gear. The jactuator gear box should be disassembled and inspected at least once each season paying particular attention to the thickness of the square thread remaining inside the brass worm gear. If the threads are approaching $3/16$ inch thickness, the gear must be inspected after each erection and tear-down; less than $3/16$ inch thickness, the gear must be replaced. Abnormal wear and load is created by allowing dirt and foreign objects to accumulate on the screw shaft or from lack of lubrication. The screw should be cleaned after moving the ride and prior to erection, and a good coating of multi-purpose grease applied to lubricate the threads.

Indications of jactuator problems are pressures above 1700 to 1800 lbs. during erection, stalling of the hydraulic motor, jerkiness, or any other abnormal conditions. Should any of these symptoms occur, do not attempt to complete the erection. Bring the top section back down in the stowed position and inspect both the screw and brass gear.

When inspecting the jactuator assembly pay close attention to the eye ends of the screw shaft to see that there is no evidence of bending or hairline cracks.

Manufacturers of
The Hi-Roller • Super Loops • Whirlwind • Paratower

THE HI-ROLLER CO.



SERVICE BULLETIN

June 8, 1990

SERVICE BULLETIN 89-3A AMENDMENT

SUPER LOOPS - JACTUATOR GEAR BOX

Paragraph 2 amended to read as follows:

Indications of jactuators problems are pressures above 1900 to 2100 lbs. during erection, stalling of the hydraulic motor, jerkiness, or any other abnormal conditions. Should any of these symptoms occur, do not attempt to complete the erection. Bring the top section back down in the stowed position and inspect both the screw and brass gear.

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THE HI-ROLLER CO.

(806) 293-5214
FAX (806) 293-5215

P.O. Box 1968
Plainview, TX 79073-1968