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SERVICE BULLETIN

Ride Manufacturer: Larson International Inc. Affected Production Dates: 1998-2017

Ride Name: Giant Loop Affected Serial Nos.: 1-16

Abstract Of Issue:

Preventive maintenance includes inspecting all wheel axles to ensure they are properly secured. This bulletin provides additional detail to highlight the procedure. A new guide wheel axle design will make this process easier and should be installed as soon as practicable.

Reason for Release:

Loose wheel axles will rotate during operation and cause wear to the axle and the mounting plates which could result in component failure during ride operation.

Action To Be Taken:

- 1. Update maintenance procedures to include the following ongoing inspections:
 - a. Daily Inspection
 - Verify all axle nuts and cotter pins (or R-clips) are in place
 - Check each wheel for lateral and vertical freeplay in axle [replace guide wheel axle bolts that exhibit wear from rotating]
 - b. Monthly Inspection
 - Verify axle nuts have proper torque (torque stripe visual verification OK)
 - Spin each wheel to listen for bearing issues
- 2. Replace all guide wheel axle bolt hardware with new design (see pages 2-4)
- 3. Mounting plate wear limit 0.6875 inch (maximum hole dimension)
- 4. Tighten all loose axles with the following procedure:
 - a. Tighten axle nuts to proper torque (guide wheels 140 ft-lb, road/upstop wheels 100 ft-lb)
 - b. Visually check that mounting plates are clamping against the guide wheel bushings.
 - c. If freeplay is still observed, there may be an issue with the bearings or it may be necessary to add shims to the guide wheel axles. Hardened 0.625 inch washers are ok to use as shims provided the mounting plate surface is not worn.





