Issuing Entity:
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SERVICE BULLETIN

Ride Manufacturer: J&S Rides, Inc. dba Larson International, Inc.

Affected Production Dates: All Dates

Ride Name:
All rides produced by J&S Rides, Inc. dba Larson International, Inc., Larson International, Inc. Sellner Manufacturing, Inc., Hi-Ro Co, Inc., W.F. Larson, Inc. and LMC, Inc.

Affected Serial Nos.: All units

Abstract Of Issue: General Inspection for Corrosion/Rust

Reason for Release:
This bulletin provides general information on detection of indications of corrosion/rust.

Action To Be Taken:
All owners of the above noted amusement rides are required to perform the overall ride inspection detailed on the following pages within 90 days of the release date of this bulletin.

These inspections are required on all rides which are at least 5 years of age or older, and again when the ride is 10 years of age. Thereafter, the inspections are required annually. Shorten the intervals as deemed appropriate due to corrosive environments such as coastal regions.

These inspections are in addition to all existing maintenance and inspection requirements. Ride owners and operators are reminded to comply with the ASTM F-24 Standards, including F-770: Practice for Ownership, Operation, Maintenance, and Inspection of Amusement Rides and Devices.
These are available from ASTM International: www.astm.org.

Reference Standards:
*ASTM F770 7.4 Inspection Documents - Inspection documents deemed appropriate by the owner/operator to be maintained in the amusement ride or device file shall be filed in accordance with the procedures outlined in this practice and Practice F1193.**
*ASTM F770 7.5 Notification of Manufacturer - The owner/operator of an amusement ride or device shall promptly notify the manufacturer of an incident, failure, or malfunction which, in the owner/operator's judgment, affects the continued proper operation of the amusement ride or device and is information of which the manufacturer should be aware.**

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J&S Rides, Inc. dba Larson International Inc. issues notifications for the benefit of owners of amusement rides manufactured by J&S Rides, Inc. dba Larson International, Inc. As a service to the industry, and in the interest of employee and public safety, J&S Rides, Inc. dba Larson International, Inc. also issues notifications for the benefit of owners of amusement ride equipment for which the manufacturer no longer exists such as LMC, Inc., W.F. Larson, Inc., Sellner Manufacturing, Inc., Larson International, Inc. and Hi-Ro Co, Inc. In doing so, J&S Rides, Inc. dba Larson International, Inc. does not assume liability for losses associated with amusement ride equipment built by manufacturers other than J&S Rides, Inc. dba Larson International, Inc.

All work must be performed by competent personnel, capable of understanding the function of the parts and their proper installation. Use only those components authorized, specified or provided by J&S Parts Sales, Inc. All applicable OSHA safety standards and safe industry practices must be observed.

Observe all safety information contained in the manufacturer's manuals and bulletins. Make available this bulletin and all related technical information to personnel using the equipment.

Inspection Procedure

The inspections defined in this bulletin are intended to obtain indications of corrosion/rust. Remove cover panels, upholstery, etc. to gain access to structures for inspection. Signs of corrosion/rust may lead to further disassembly of the ride. Use one or more of the following methods:

IMPORTANT: Comprehensive inspection records must be maintained. Record details on which areas were inspected, date of inspection, who performed inspection, type of inspection, and specific observations.

1. Visually check structural members for visible signs of corrosion/rust. Pay close attention to areas where moisture may collect, both internally and externally. Examples include the lowest portion of tubing in a structure (in both transport and operating positions), under upholstery or padding, and under diamond plate or sheet metal. Visual indications of corrosion/rust include, but are not limited to:
   - Rust stains, bubbling or cracking of paint
   - Loss of material, including flaking, pitting or holes in the structure.
   - Deformation of tubes where water has collected and frozen.
2. Use a hammer to tap on and around questionable areas. Material loss can often be detected by a difference in the sound when compared to good solid material.
3. Use a sharp pick to probe questionable areas. Look for discoloration, soft areas, pitting and scaling. If the pick penetrates the surface, significant rust is indicated.
4. A borescope can provide visual access to enclosed and hard-to-reach areas if an existing hole or opening allows its use. Do not drill any structure without consulting with the manufacturer.
5. Test equipment such as an ultrasonic corrosion gauge can be used by competent owner/operators to perform additional testing.

While these inspection guidelines are not a substitute for inspection by qualified NDT personnel, they can help identify areas of inconsistent thickness, indicating corrosion/rust.

If indications of corrosion/rust are found then a determination of the potential effects of the structural degradation must be completed before operating the ride. If there is any question about the continued safe operation of the ride please contact J&S Rides, Inc. dba Larson International, Inc. for additional information.

IMPORTANT: *The purpose of initial testing is to identify indications of corrosion/rust. If found, additional inspection by qualified NDT personnel may be required to determine the actual extent of material loss*