

**Eli Bridge Company**

800 Case Avenue
Jacksonville, IL 62650
USA

Phone: 217-245-7145 FAX: 217-479-0103

Email: Elibridge@aol.com

Website: www.EliBridge.com

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SERVICE BULLETIN

Ride Manufacturer: Eli Bridge Company **Affected Production Dates:** All **Affected Serial Nos:** All
Ride Names: Scrambler®, Trailer Mounted Scrambler (TMS), Retro-Fitted Scrambler (RS)

Abstract of Issue: Pin-holes becoming oveled and oversized is a problem on older rides due to wear or misalignment of pins driven into the holes. Once the holes are worn, the condition will rapidly become worse due to cyclic loading and peening of the parts. The hole wear can be in all structural connections such as seat tabs, seat sweep, either end of the upper or lower sweep or the tie rods.

Reason for Release: This is not a new issue, but Eli has experienced an increase of phone calls with questions regarding pin and pinhole wear. If the problem is not resolved, then the rate of wear increases and results in unsafe operating conditions. Pin wear can allow the entire ride to "sag" and can possibly allow the seat step to come into contact with the bottom sweep. This contact will result in catastrophic consequences such as patron injury or death not to mention damage to the equipment.

Action to be taken: If the pin diameter has worn 1/32" or more, then the pin must be replaced with a new pin unless the pinhole had similar wear. If the pinhole has worn 1/32" over, at widest point, then the hole must be oversized and the next larger size assembly pin used or oversized and bushed back to the original 1". Eli Bridge Company has oversized pins available and a line reamer rental program to allow the owners to bring the worn holes back to factory tolerances. There are also bushings available to rebuild the holes after reaming past maximum oversized pin sizes. The corrective action is to line ream the worn holes to the next available oversize diameter and install new oversize pins to match. The original diameter of the assembly pin is one inch. Oversize pin diameters are 1 1/16" and 1 1/8" and are marked with one groove in the head for 1 1/16" and two grooves for 1 1/8" diameter. After this, Eli Bridge Company has 1-1/4" OD/ 1" ID cylindrical bushings available that are to be silver soldered into the single tab holes after reaming to 1 1/4" diameter. The double tab locations have a flanged bushing design and these are welded around the flange to the double tab

For additional information not found in this bulletin, please review your Scrambler Manual. For consultation about your SCRAMBLER®, please contact Eli Bridge Company at the phone number or email listed above.