

Dartron Industries, Inc. is not the Manufacturer of Hurricane rides built before 1992. This Bulletin is issued in the interest of correcting a potential problem on rides whose manufacturer is no longer in business. This Bulletin should in no way be construed as Dartron assuming the role of manufacturer of pre-1992 Hurricanes.

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Name: Hurricane Car Bolt Replacement
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SAFETY BULLETIN

Ride Manufacturer: Frank Hrubetz & Co., Kilinski Mfg. Co., Man-Co Manufacturing, Inc.

Ride Name: Hurricane

Affected Serial #'s: All

Model # All

Affected Production Dates: 1972 – 1991

Abstract of Issue: It has been reported to Dartron that during recent Hurricane car inspections advanced corrosion was found on the fasteners that bolt the Hurricane cars to the saddles and on the fasteners that bolt the restraint system to the car floor. If moisture penetrates into the bolt holes drilled into the car bottoms it can become trapped and result in rapid corrosion of the shank of the bolt

Reason for release: Deterioration of the fasteners due to corrosion could eventually result in failure of the fasteners and possibly a failure of the restraint or a car separating from the saddle.

Action to be taken: (1) Remove and replace all Hurricane Car floor fasteners with special corrosion resistant fasteners. (2) Inspect the car floor fasteners to verify that the special corrosion resistant fasteners have been installed.

Detail of issue:

1. The required fasteners to use, as replacements are Premier Industrial Corporation 'SuperTanium' hex head cap screws. The nuts and the USS flat-washers, which are used both under the head of the bolt and under the nut, must also be 'supertanium'. The size and quantities, per car, are shown below:
Quantity 4 5/8"-11 x 3" Quantity 2 1/4"-20 x 2-1/2" Quantity 8 3/8"-16 x 2-1/2"
2. Hardware can be obtained locally or from Dartron Parts & Service.
3. When inspecting installed bolts, look for the word 'supertanium' on the bolt head. All bolt heads should be found inside the car. All deformed nuts and washers should also have the premier logo (six sided resembling a flattened hex).
4. Remove and replace the 5/8 x 3" fasteners that hold the car body to the 'saddle'. Tighten the new fasteners to 110 foot-pounds of torque on the nut side. This should be done one at a time for ease of replacement and to avoid misalignment.
5. Remove and replace the 3/8 x 2-1/2" and the 1/4 x 2-1/2" bolts that hold the restraint system to the car. Tighten the new fasteners to 25 and 7 ft. lbs. of torque respectively. Again, the torque on the fasteners must be applied on the nut. Replace fasteners one at a time for ease of replacement and to avoid misalignment of the restraint system.
6. Verify proper operation of the lap bar release system prior to operation.
7. If you have any problems or questions, please call Technical Support at Dartron Industries at (503) 362-3421.