

Tivoli Mfg. Ltd.

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Safety Bulletin

Bulletin No: RMSA004
Ride Type: RE-MIX / Re-Mix II
(aka. Extreme)
Date: March 2, 2010

Page: 1 of 1
Rides Included: All Rides
Pages: 1
Parts supplied: N/A

Purpose: Ride incident notification

Tivoli Mfg. Ltd has become aware that a passenger had fallen from a ride during operation in England on February 18, 2010. At this stage in the investigation it appears (as indicated in the accompanying CARES safety notice) that the passenger was very thin and that the lap bar was in the upper limit of the closed position. It should also be noted that the ride was operating in the manual operating mode and the ride was not turning at the maximum speed. **This manual mode is not installed in USA models.** After investigation by local authorities the ride was found to be in correct operating condition and was recertified for operation.

At the present time Tivoli is working on an extension of the saddle horn to reduce the space between the lap bar, when it is in the upper limit position.

All rides may still be operated with the following restrictions until the new saddle horn addition is installed:

The ride timer selector switch must be placed in position 1 and the key removed, preventing anyone from inadvertently changing it. The reason for this change, position 1 does not allow the ride arms to tilt out beyond 75 degrees, thereby reducing the risk of a reoccurrence before the installation is completed. All riders meet the minimum height limit of 52'. Operators are to check all lap bars prior to each ride cycle to insure the bar is pressed down against the rider.

CARES Safety Notice

This work product has been gathered by CARES member agencies as a public service. It is not intended to be, and does not constitute, a comprehensive list. There are regular changes in this information. All requirements and recommendations should be verified with the ride manufacturer to ensure safe and proper use.

If you identify any errors or omissions, please [email CARES](#).

Title/Summary: **Tivoli Orbiter Extreme accident**
Reported By: [Ian Davies](#)
Date: 23-Feb-10
Posted On: CARES safety notice page
Emailed To: All CARES Members
Safety Notice Subscribers
Details: The following was reported by Britain's Health and Safety Executive (HSE):

An accident involving the ejection of a young, thin girl from a Tivoli Orbiter Extreme ride occurred on 18 February 2010 whilst the ride was running. She was ejected from the inner seat of the pair and received a number of injuries which resulted in hospitalisation.

It is probable that the ejection happened because the girl's left leg got between the top of the crotchommel and the bottom of the over shoulder restraint which, at present it is believed, was set correctly at the 'first click' restraint position. This position, when combined with the various forces, caused the girl's lower body to move sideways and out through the gap between the lower parts of the two seats. It is believed that the girl met the height requirement for the ride.

Tivoli are currently working on a solution to this which may include adjustments to the crotchommel and/or additions to the side restraint bar system, more details should be available early next week when a further note will be sent out giving details of, and the requirements for, the fitting of the adjustments.

In the meantime controllers are to ensure that all riders meet the minimum height requirements for their ride and are to further ensure that the over shoulder restraint is correctly pressed down onto the midriff of riders to ensure movement within the containment system is kept to a minimum.

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