

NOTIFICATION

Affected Park: Six Flags Great Adventure
Affected Ride: Floorless Coaster
Ride Name: MEDUSA

Item: Lift driving unit one way clutch (Sprag Clutch)

Abstract of Issue:

This notification clarifies the lubrication, the inspection and the installation of the lift drive unit one way clutch hereafter called Sprag Clutch.

Reason for Release:

Clarification of the lubrication, the inspection and the installation of the lift drive unit one way clutch hereafter called Sprag Clutch.

Action to be taken:

Lubricate and inspect the Sprag Clutch as indicated.

Detail of Issue:

GREASE LUBRICATION

1. The clutch is factory packed with Fuchs Renolit MP2 grease. Only other recommended grease mentioned on the table below may be used. **THE USE OF LUBRICANTS OTHER THAN THOSE RECOMMENDED CAN CAUSE IMPROPER SPRAG ENGAGEMENT AND SUBSEQUENT FAILURE OF THE UNIT.**
2. Grease the sprag clutch every 3 months. Wipe fittings clean and pump new grease into all fittings until it flows past labyrinth seals on both sides of unit.

BOLLIGER & MABILLARD

CONSULTING ENGINEERS INC.

Ch. des Dailles 31
1870 Monthey
Switzerland
Tel. +41 244 721 580
Fax +41 244 719 584
info@bmdesign.ch

Bulletin No.:	6
Release Date:	July 6, 2005
Effective Date:	July 6, 2005
Supersedes:	Notice 2/04
Issued by:	A. Beck
Checked by:	G. Petitpierre / E. Berra
Page:	2 of 2

Affected Park:
Six Flags Great Adventure

Affected Ride: Floorless Coaster

Ride Name: Medusa

Detail of Issue continued:

GREASE

TEMPERATURE RANGE	RECOMMENDATION
-7°C TO +65°C	FUCHS RENOLIT MP2 (Original) MOBIL GREASE MP2 MOBIL MOBILUX 2 SHELL ALBIDA R2 ESSO BEACON 2

INSPECTION OF THE SPRAG CLUTCH

Daily Inspection

Listen to the sprag for abnormal noise. In case of abnormal noise:

- inspect the sprag to find the cause of the noise
- carry out the inspection as specified for the weekly inspection

Weekly Inspection

To check the sprag clutch efficiency, stop the train on the lift so that no anti-rollback dogs are in contact with the toothed rack (the whole train load is then supported by the sprag clutch). It may be necessary to stop the train several times on the lift to get that result.

INSTALLATION (Clutch replacement)

1. Before mounting on a shaft, check for damage and dimensional accuracy.
2. Check that free direction of rotation is correct.
3. Offer unit to shaft and apply pressure to end face of inner race only.

High pressure applied to the outer race could cause damage to the bearings and premature failure of the unit.

4. Secure unit axially by use of retaining plate.
5. Reconnect the torque arm