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Service Bulletin No. 31-02

Release Date: 21.09.01

Enclosure : 2 drawings

Page 1

SERVICE BULLETIN

Abstract of Issue: Restraint bar units gondola

Reason for release: Incident on a HUSS ride type FLICFLAC

Action to be taken: Supplement of maintenance manual

Ride Type: JUMPING

Ride Serial Number: 77658

Dear Sir,

According to our records you are the owner/operator of a HUSS "JUMP" amusement ride. If this is no longer the case, please return this letter to us together with the name, address and contact information of the current owner.

With reference to a FLIC FLAC ride (which has the similar restraint system installed), be advised that an incident occurred earlier this year where a young female guest while enjoying a ride was seriously injured. Huss personnel and inspection officials investigated the incident and although the specific cause(s) of the incident were not able to be identified, it was determined that no mechanical failure of the restraint system occurred.

There was however several operational factors which may have contributed to the incident. As such we want to remind you and your employees of the contents of the operation manual which states:

"It is prohibited to lean out of the gondola, to stretch out arms and legs, to smoke and to take animals, umbrellas, sticks or any other bulky, pointed or loose objects whatever onto the ride. During the ride, the passengers must sit still and hold onto the grip bars provided for this purpose. Passengers must rest their heads against the back of the seat or the head cushion, and;

The operator must not start the ride until:

- a) all shoulder and lap bars in the gondolas are properly closed and locked,*
- b) an attendant has checked that each single passenger is properly seated and is being properly held by the shoulder and lap bars, i. e. that the bars fit snugly against the passenger's body and that their retention function is not in any way impaired by clothing (it is not sufficient for the operator himself to check this, because he is located too far away from the gondolas)."*

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It is very important that ride operators ensure that all guests are seated properly and that the restraints are locked and firmly pressing against each guest before starting the ride. Ride operators must conduct a pre ride inspection of each restraint and ensure that they are adjusted properly. Guests must not be permitted to carry on personal belongings such as camera, backpacks or purses. In addition guests must not be permitted to place personal items between themselves and the seat restraints.

Please take care of the below mentioned supplement for your maintenance manual.

Subject JUMP Gondola Passenger Restraints (Shoulder Bars)

Supplement to the maintenance instructions, please add to your operating/maintenance instructions

Daily Maintenance

- 1) Check the cushions of the passenger restraints for damage (visual check)
- 2) Check the locking mechanisms of the passenger restraints in the area of the mounting axle and fork heads for cracks. (visual check)
- 3) When the restraints open, watch out for restraints that swing up fast, adjust this with the "brake" items 52, 53 and 53.1.

Item numbers refer to Drawing No. B1-24A.003 Sheet 5 (enclosed)

Monthly Maintenance

- 1) Remove the rear gondola panelling elements
- 2) Lubricate the pin Item 15 and the bearing in the fork head Item 32 and check for easy running.
- 3) Clean the locking mechanisms, especially Items 11, 11.1, 14, with a cleaning spray e. g. "Bremsenreiniger" [Brake Cleaner] from the Berner company.
- 4) Hairs and other particles of dirt must be removed.
- 5) The dimension of the toothed rack Item 11 dimension 22 mm must not be undershot on any tooth (see attached drawing regarding the wear limit).
- 6) Check the condition of the stop (rubber buffer). Visual check.
- 7) Check the pneumatic cylinders and lines for any leaks (leak detection spray)
- 8) Check the manometer setting of 3 bar.



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- 9) Moving parts and the position 11 and 11.1 must be lubricated with a bearing grease EXXON Beacon EP2.

Item numbers refer to Drawing No. B1-24A.003 Sheet 5 (enclosed)

Exchange of individual parts, spare parts supply

When the wear limit has been reached (Item 11, 22 mm) or after an operating period of max. three (3) years, both locking units of each seat should be sent in to the makers Huss for an overhaul.

The units must be sent in complete with the bearing heads Item 32, the pin Item 15, and the limit switches.

Installation and the necessary settings must be carried out by the Huss company. HUSS then issues a corresponding certificate.

No spare parts may be exchanged without prior consultation and agreement with the Huss company.

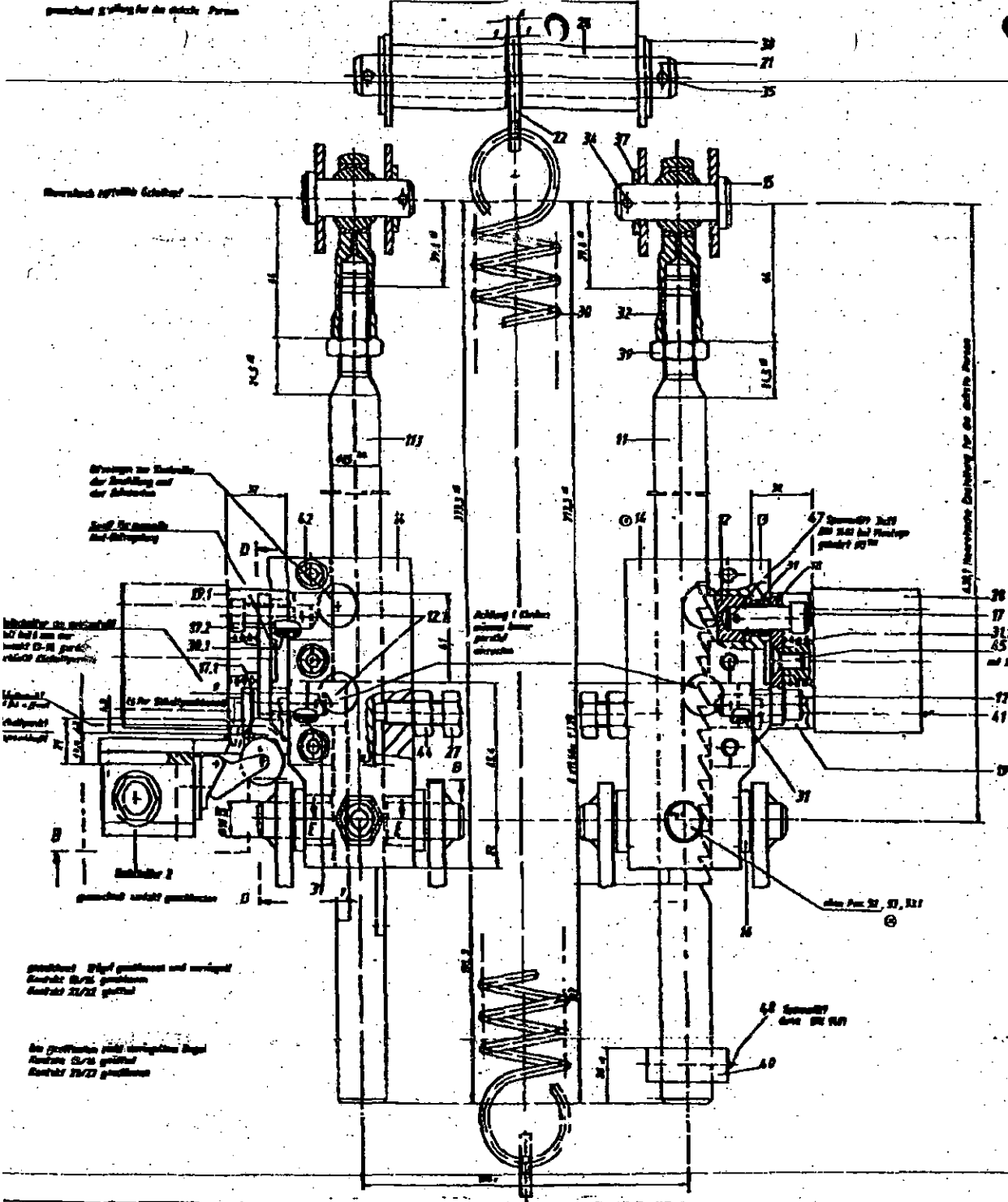
Should you have any questions regarding this or any ride operation procedures please contact the Huss Service Department at 011 49 421 499 00.

Best regards

HUSS Maschinenfabrik GmbH & Co. KG
- Department for technical services -

Enclosure: 1 drawing B1-24A 003 Sheet 5
1 drawing wear limit

Übersicht geöffneter Endschalter



Öffnen des Schaltstells
der Schaltung auf
der Schaltung

Stift für normale
Auf-Schaltung

Endschalter im geschlossenen
Zustand ist mit dem
Kontakt D-III geöff-
net. Kontakt D-III ist
nicht geschaltet.

Endschalter
D-III ist
geschaltet.

gerichtet gefällig geöffneter

gerichtet gefällig geöffneter und verriegelt
Kontakt D-III geöffneter
Kontakt D-III geöffneter

die geöffneter nicht verriegelt
Kontakt D-III geöffneter
Kontakt D-III geöffneter

Achtung! Feder
drückt auf
Kontakt

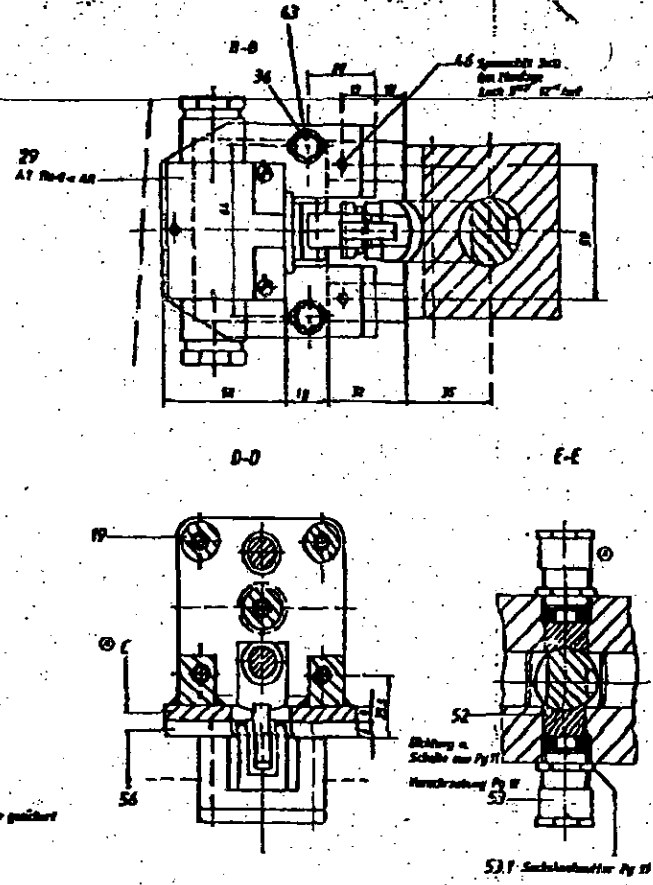
43 Schraube
mit D-III

also für 27, 31, 32

43 Schraube
mit D-III

29
A7 Ende - A8

43 Schraube
mit D-III
mit D-III



Alle Teile leicht gefettet eingebaut!

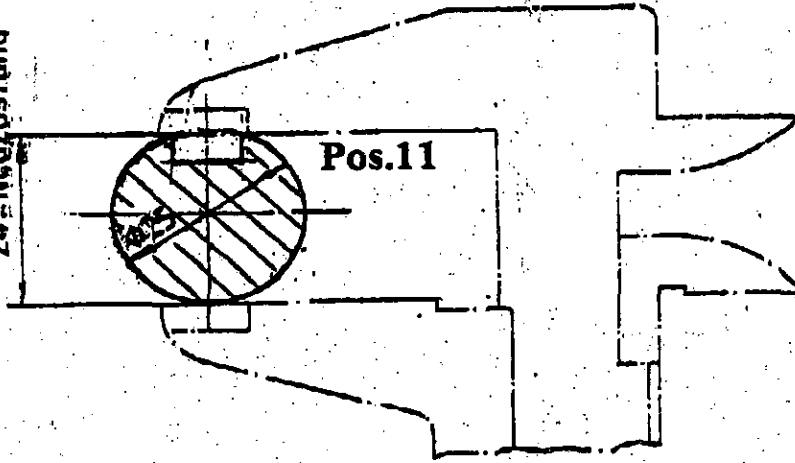
Alle nicht geketteten Schrauben mit Locktüte
geichert!

Endschalter mit Doppelkontakt!

Gezeichnet	Geprüft	Montiert	Abgenommen
Sitzplatz-Vorrichtung			
D-III A7 A8			

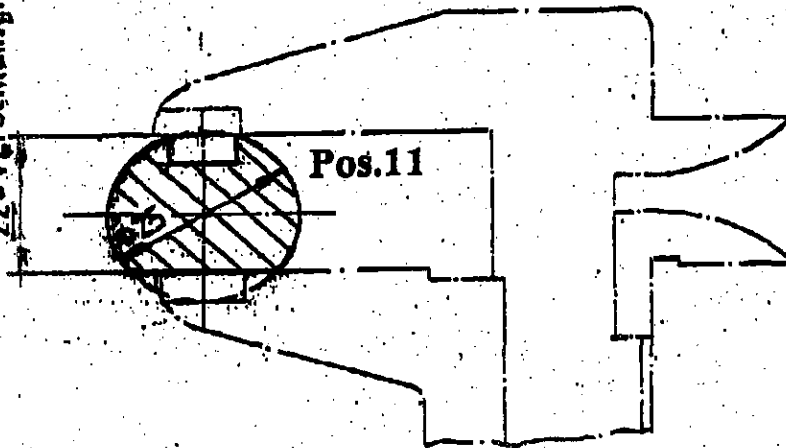
24 = new condition

24 = Neuzustand



22 = limit of wear

22 = Verschleißgrenze



Art. Nr.:

Freigelegungen:
 1. Allgemein, DIN ISO 2768 T1 (mit Maß)
 2. Breiten, DIN 2310, Tabelle 3/G und 2/B
 3. Konstruktion, DIN 8570 Blatt 1(B), 3(F)

Urhaberschutzvermerk
 nach DIN 34 beachten.

Maßstab 1:1

Gewicht

Werkstoff (Halbzeug, Rohteil-Nr. usw.)

	Datum	Name
Bearb.	17.09.01	DT.
Gepr.		
Norm.		

Benennung

Verriegelungsstangen-Messung
 Proj. 29, 30 u. 31

Zeichnungsnummer

Blatt



MASCHINENFABRIK

GmbH & Co. KG

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