



SERVICE LETTER BR-01
ISSUED BY HUSS MASCHINENFABRIK
DECEMBER 1986

RE: Revolutions per minute for the Breakdance

An overspeed indicator controls the programmed revolutions. Indicators on a few rides shut the ride down because specific situations lead to higher revolutions.

IT IS ABSOLUTELY MANDATORY THAT THE OVERSPEED INDICATOR MAY NOT BE READJUSTED TO PREVENT THE SHUTDOWN ----- THIS IS A SAFETY

FEATURE!

Even a small increase of the RPM can lead to 50% higher stress on certain structure parts, which can cause cracks at the gondola arms near the braking cylinders.

For your information again:

The gondola gyros have a maximum of 28 RPM.

The turning play - 14 RPM

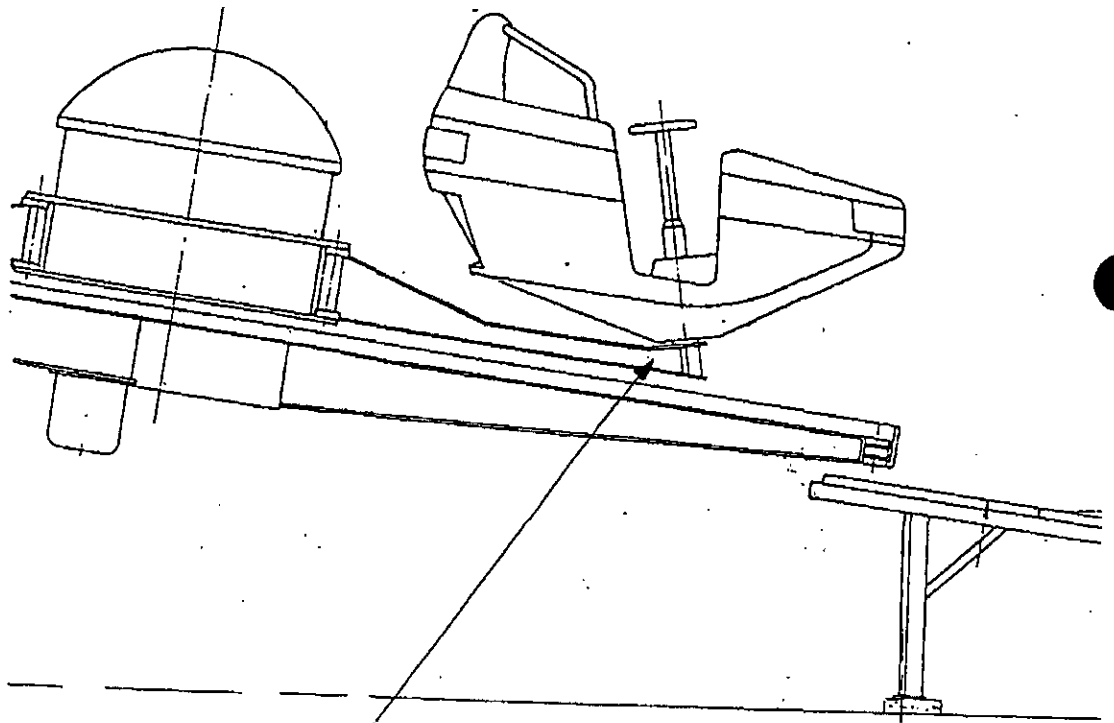
In any event, the gondola arms have to be checked on a regular basis.

Enclosure: Drawing #4-22378

HUSS

BREAKDANCE

*Gondelkreuz
gondola cross*



*Diesen Bereich besonders auf Rißbildung kontrollieren
this area is to be controlled for possible cracks*

Nr. 4-22378



SERVICE LETTER BR-02
ISSUED BY HUSS MASCHINENFABRIK
JUNE 1988

RE: Conversion kit - Breakdance II

To avoid boring waiting time during the loading, the customer tends to spin the gondola around the center steering wheel.

As reported, there is the danger that loose clothing could be wrapped around the wheel support.

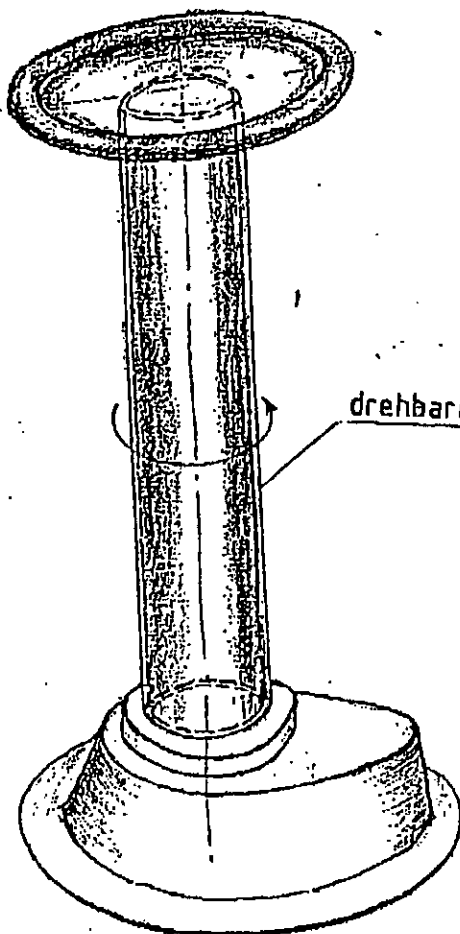
To avoid accidents, we offer you a conversion kit, where the free-standing tube around the support eliminates this problem.

Enclosure: Drawing #4-22843

HUSS

BREAKDANCE

Drehbare Hülse um Gondel-Handradsäule



drehbare Hülse

HUSS MASCHINENFABRIK GMBH & CO. KG

D-BREMEN
P.O. Box 110206

☎ 0421-49900-0
Telex 2451R0HUDE

Nr. 4-22843

07.06.88 G-



SERVICE LETTER BR-03
ISSUED BY HUSS MASCHINENFABRIK
APRIL 1988

RE: Breakdance Spacer for the gondola lap bar

We have experienced that some gondolas are flexible in the fiberglass body with the result that if a heavy person rides the Breakdance, the lap bars could be accidentally opened.

Therefore, you will need to modify the gondola lap bar system. With the enclosed spacers, you can reduce the distance between both sides to prevent an accidental opening. If you have questions on the installation, please call us.

As a courtesy to you, we will be sending you these parts free of charge.

*This service letter applies to serial numbers up to #52912 only.



MASCHINENFABRIK

**RETURN RECEIPT
REQUESTED**

Amusement Ride "BREAKDANCE"

Service Letter No. 04

Re.: Lap bar modification

Dear customer,

We want to notify you that HUSS Maschinenfabrik uses a modified design on all new "BREAKDANCE" gondolas; this modification has a new locking device with a hook-design to avoid accidental opening due to excessive axial stress on the gondolas.

If you are interested to change your existing mechanism, there is a modification kit available.

Bremen, April 25, 1990

SERVICE LETTER BR-05
ISSUED BY HUSS MASCHINENFABRIK
May 1990



**RETURN RECEIPT
REQUESTED**

RE: Gondola bearing modification kit - Breakdance

Huss Maschinenfabrik has designed a modification kit for the gondola bearings in order to extend the lifetime of them. This is not safety related. The kit includes new bearings, Nilos-rings, and shim plates according to the enclosed drawing #E1-17.4.

SERVICE LETTER BR-06



MASCHINENFABRIK

Huss Maschinenfabrik GmbH & Co. KG - Postfach 110206, D-2800 Bremen

Stresemannstr. 56 - Telex 245100 Huss d
☎ (0421) 499000 - Telefax 4990040

**RETURN RECEIPT
REQUESTED**

Ihre Zeichen/Inhaltlich

Unser Zeichen
Dreier/Mi

Telefon-Durchwahl / Kommission / Tag
September 25, 1990

RE: "BREAKDANCE" up to #51039

Dear Customer:

In our Service Letter BR-01 we pointed out that the revolving gondola cross booms, i.e. 4 booms per gondola cross, a total of 16 pieces, must be constantly checked for cracks.

Today we would like to direct your attention to this matter once again. After 4 - 5 years of operation it may happen that there is cracking. Therefore, we urgently recommend that you think about a complete replacement of the gondola crosses.

Since the bearings are also subject to a certain wear, it may be advisable to replace them at the same time.

Yours Faithfully,

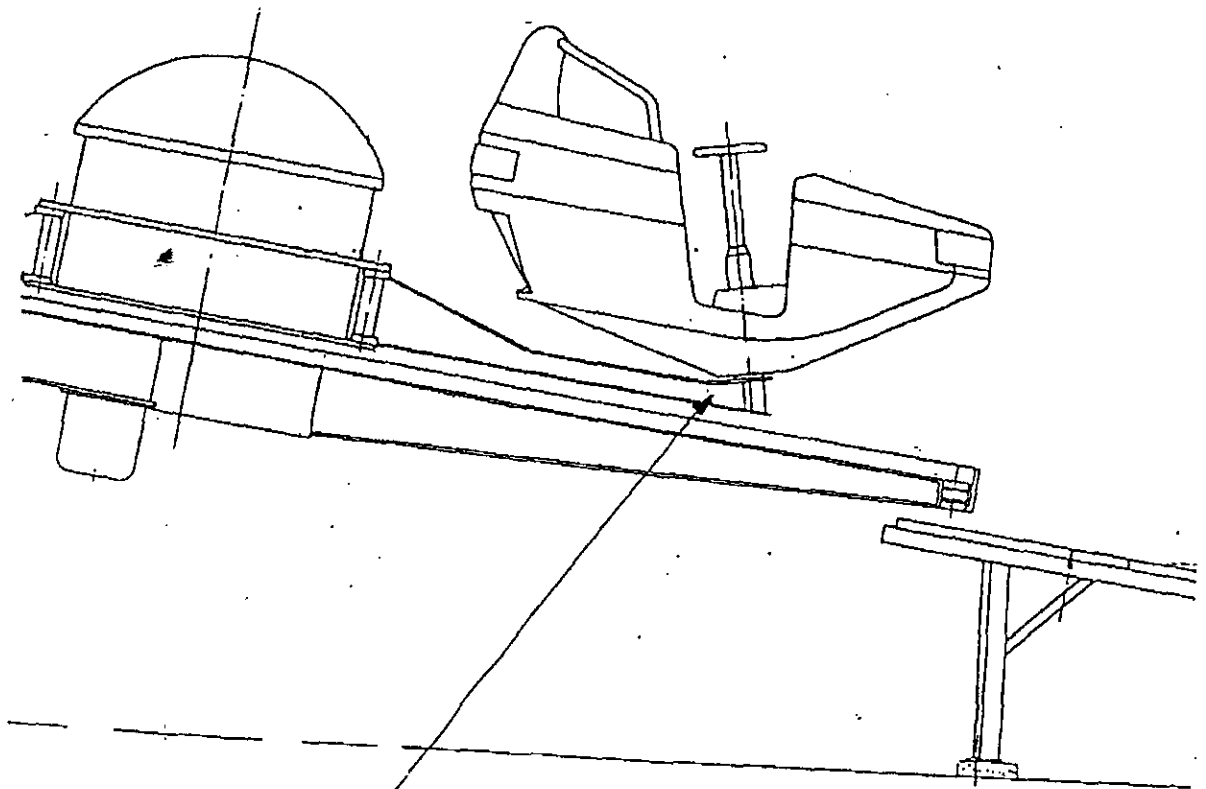
Huss Maschinenfabrik
GmbH & CO. KG

Encl.
drawing No. 4-222378
Service Letter BR-01 (copy)

HUSS

BREAKDANCE

*Gondelkreuz
gondola cross*



*Diesen Bereich besonders auf Rißbildung kontrollieren
this area is to be controlled for possible cracks.*

SERVICE LETTER 1

Dear Sirs,

We wish to draw your attention to an incident that occurred on the evening of 25th October 1999 at the Freimarkt in Bremen and in which one of the supporting booms of the "BREAK DANCE" amusement ride broke off together with the gondola. Nobody suffered any injury as a result of this incident. The ride in question was examined by the TÜV (Technical Control Board) after the incident occurred and the inspectors came to the conclusion that it was presumably a case of fatigue failure of the material. The other booms were then examined for similar problems by ultrasonic testing.

Against the background of this incident at the Bremen Freimarkt we wish to again draw your attention to the fact that - as you already know from previous Service Letters - the gondola booms of the amusement ride "BREAK DANCE" have to be examined for the formation of cracks in the steel structure within the framework of the **regular maintenance and monitoring** to be carried out by the customer at intervals of two weeks. It is therefore necessary to inspect and to check out the following areas of the booms under the gondolas:

1. Plates and welds along the webs
2. Plates and welds around the top of the gondola pivot pin
3. Plates and welds around the bottom of the gondola pivot pin

The enclosed diagram shows those points on the gondola boom that are subject to special stresses and also shows an example of a typical crack and its characteristics. So that you can be sure of detecting any cracks that may have formed we would ask you to first free the boom from dirt or other contaminating substances using a brush or any other appropriate tool. If cracks are to be seen, the ride in question must be **shut down immediately** in the interest of the safety of your customers. The booms must then be exchanged.

Important: If you do not shut down operation of the ride despite cracks having been found, this endangers the lives of the riders, the general public and your personnel should a gondola break off.

As you know, all our amusement rides are examined by the German TÜV (Technical Control Board) and the design calculations, design engineering and construction work are all carried out in accordance with the German standard DIN 4112. Nevertheless, the safety checks mentioned above are still necessary because, in view of the extreme stresses and the long operating life which your ride has meanwhile attained, it is not possible to entirely exclude the possibility of signs of material fatigue. You can exchange the old gondola booms for new gondola booms from us at a special price of DM 12,500 plus VAT per revolving gondola cross, ex works, not including assembly and installation. This offer remains valid until 30th April 2000.

If you do detect any cracks, please contact our Service Department (Tel: 0421-4990044) without delay.

Yours sincerely,



HUSS MASCHINENFABRIK
GmbH & CO KG
Service Department

Enclosures:
Diagram of the gondola boom dated 21.10.99

Drawing No. Service Letter No. 8

Service Letter 2

Dear Sirs,

According to our records you are the owner/operator of a HUSS Break-Dance 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 of the attraction.

Regarding the Break-Dance, be advised that following discussions with customers and two incidents we are now requiring that ride owners display a ride regulation stickers in each ride seat in order to advise guests not to exit or place hands or feet outside of the ride carrier until the attraction has come to a complete stop. These stickers must be maintained in good condition and replaced when worn or damaged.

We would also suggest that this information be displayed in any pre ride signage and as part of any pre ride safety briefings or messages. In addition to the above, our engineers have also developed a vehicle door for the Break Dance, which is available as an option if a facility would like to install it.

For your convenience we have enclosed an initial set of ride regulation stickers at no cost. Should you need to order more or if you would like to discuss this or any service issue, please contact the Huss Service Department at 011 49 421 499 00.

The ride regulation stickers must be installed in a visible area in all ride vehicles.

Best regards,
HUSS Maschinenfabrik GmbH & Co. KG



Huss Maschinenfabrik GMBH
& CO. KG
P.O. Box 110206
Bremen Germany

Phone: +49 421 499 0000
Fax: +49 421 499 0040

www.hussrides.com
e-mail: service@hussrides.com

Bulletin No: Break Dance
Service Letter 4 re rotational
post.doc

Release Date: March 20, 2004
Effective Date: March 20,
2004
Supercedes:
Completion Date: March 20,
2004

Page 1 of 1

Service Bulletin

Ride Manufacturer: Huss Maschinenfabrik
Ride Name: Break Dance
Model Number: All

Affected Production Dates: All
Affected Serial #: All

Abstract of Issue:

Various models of Break Dance rides have been distributed with a rotational post located in the center of each gondola as shown in the photograph below. These posts require regular inspection - if installed - to ensure that they are securely fastened to the gondola frame.

Reason for Release:

Recently an incident occurred where a rotational post was ejected from a moving gondola and injured a by-stander. Further investigation identified that the post fasteners had not been regularly checked for security.

Action to be taken:

(Inspection, modification, replacement, etc)

Inspect and document rotational post fasteners on a regular basis (i.e. daily) to ensure that they are securely fastened and in good condition.

According to our records you are the owner/operator of a HUSS 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.



Huss Maschinenfabrik GMBH
& CO. KG
P.O. Box 110206
Bremen Germany

Phone: +49 421 499 0000
Fax: +49 421 499 0040

www.hussrides.com
e-mail: service@hussrides.com

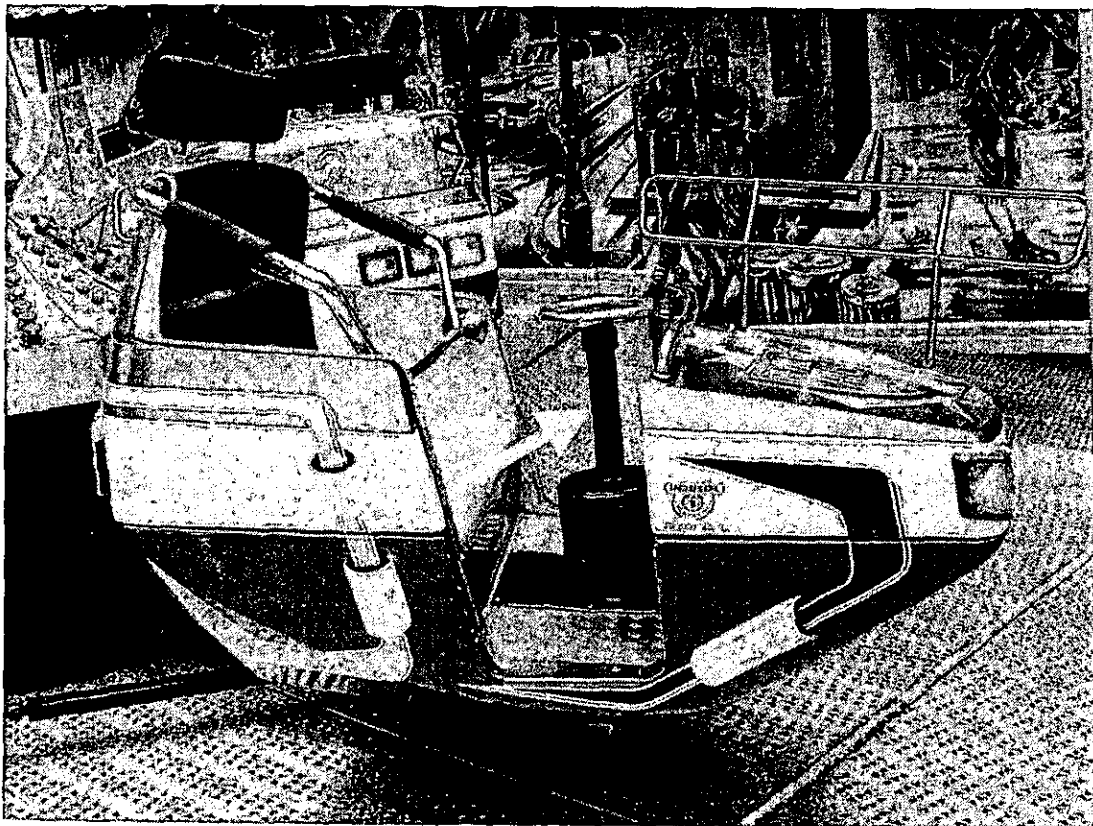
Bulletin No: Break Dance
Service Letter 4 re rotational
post.doc

Release Date: March 20, 2004
Effective Date: March 20,
2004
Supercedes:
Completion Date: March 20,
2004

Page 2 of 2

Detail of Issue:

(Text, drawing, Schematic, etc)



According to our records you are the owner/operator of a HUSS 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.



Huss Maschinenfabrik GMBH
& CO. KG
P.O. Box 110206
Bremen Germany

Phone: +49 421 499 0000
Fax: +49 421 499 0040

www.hussrides.com
e-mail: service@hussrides.com

Bulletin No: Break Dance
Service Letter 4 re rotational
post.doc

Release Date: March 20, 2004
Effective Date: March 20,
2004

Supercedes:
Completion Date: March 20,
2004

Page 3 of 3

Should you have any questions regarding the above or if you would like to order the spare parts please contact the Huss Service department in Bremen, Germany at 011 49 421 499 0000.

In North America you can also discuss service issues by contacting our service department at (604) 763-4503 and / or order spare parts through North American Parts Inc. at 716-839-4791.

In Asia, you can also discuss service issues or order spare parts through Melcher's GMBH & Co at +65 (3559) 272

Best regards

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

According to our records you are the owner/operator of a HUSS 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.

COPY
state



Huss Maschinenfabrik GMBH & CO. KG
P.O. Box 110206
Bremen Germany

Phone: +49 421 499 0000
Fax: +49 421 499 0040

www.hussrides.com
e-mail: service@hussrides.com

Bulletin No: Break Dance
Service Letter 5 re Horns
Secondary Locks.doc

Release Date: November 4,
2004

Effective Date: November 4,
2004

Supercedes:
Completion Date: November
4, 2004

Page 1 of 4

Service Bulletin

Ride Manufacturer: Huss Maschinenfabrik
Ride Name: Break Dance 1 - 4 and Rodeo
Model Number: All

Affected Production Dates:
Affected Serial #: All

Abstract of Issue:

Recently the German Amusement Ride Inspection Agency (TUV) has determined that Break Dance Rides operating in Germany are now required to have fiberglass seat horn inserts (or seat cushion inserts with horn) and a secondary restraint locking release mechanism installed in each seat in order to operate, effective March 31, 2005.

As such, Huss is also recommending these modifications to be completed for rides operating outside of Germany.

Reason for Release:

See above.

Action to be Taken:

(inspection, modification, replacement, etc)

Owners of Break Dance rides which do not have factory designed seat horns (or seat cushion insert with horn) and secondary restraint locking release mechanism are encouraged to order and install these upgrades as soon as possible.

According to our records you are the owner/operator of a HUSS 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.

Ray Dubois -

R.Dubois@hussrides.com



PARK ATTRACTIONS

Huss Maschinenfabrik GMBH & CO. KG
P.O. Box 110206
Bremen Germany

Phone: +49 421 499 0000
Fax: +49 421 499 0040

www.hussrides.com
e-mail: service@hussrides.com

Bulletin No: Break Dance
Service Letter 5 re Horns
Secondary Locks.doc

Release Date: November 4, 2004

Effective Date: November 4, 2004

Supercedes:
Completion Date: November 4, 2004

Page 2 of 4

Ray Dubois @ PARALYN

mobile - 604 - 763 - 450

Detail of Issue:
(Text, drawing, Schematic, etc)

Part Number: 3070284 (Secondary restraint locking release mechanism)



According to our records you are the owner/operator of a HUSS 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.



Huss Maschinenfabrik GMBH
& CO. KG
P.O. Box 110206
Bremen Germany

Bulletin No: Break Dance
Service Letter 5 re Horns
Secondary Locks.doc

Phone: +49 421 499 0000
Fax: +49 421 499 0040

Release Date: November 4,
2004
Effective Date: November 4,
2004

www.hussrides.com
e-mail: service@hussrides.com

Supercedes:
Completion Date: November
4, 2004

Page 3 of 4

Part Number: 3060899 (Fiberglass Seat Horn Insert)
Part Number: 1021720 (Optional Seat Cushion insert with Horn)



According to our records you are the owner/operator of a HUSS 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.



Huss Maschinenfabrik GMBH
& CO. KG
P.O. Box 110208
Bremen Germany

Phone: +49 421 499 0000
Fax: +49 421 499 0040

www.hussrides.com
e-mail: service@hussrides.com

Bulletin No: Break Dance
Service Letter 5 re Horns
Secondary Locks.doc

Release Date: November 4,
2004

Effective Date: November 4,
2004

Supercedes:
Completion Date: November
4, 2004

Page 4 of 4

Should you have any questions regarding the above or if you would like to order the spare parts please contact the Huss Service department in Bremen, Germany at +49 421 499 0000.

In North America you can also discuss service issues by contacting our service department at +1 (604) 763-4503 and / or order spare parts through North American Parts Inc. at +1 (716) 839-4791.

In Asta, you can also discuss service issues or order spare parts through Melcher's GMBH & Co at +65 63559272

Best regards

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

According to our records you are the owner/operator of a HUSS 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.