



Number: 90-176  
Date: 12-11-78

Supersedes:

*America's Largest Manufacturer of Amusement Rides*

# SERVICE BULLETIN

Effective Serial Numbers: AS NOTED  
Ride: AS NOTED Subject: SKID CONTROL VALVE REPLACEMENT

The following trailer mounted rides having TRAILER SERIAL NUMBERS 4105447, 4105457, 75-10546 and on are effected by this bulletin.

Flying Bobs, Pixie Plaza, Radar, Rok-N-Rol, Rotör, Skydiver, Sky Wheel, Trabant, Turbo, Twister, Yo-Yo, Zipper, Zumur.

Chance Manufacturing has been notified by the Brake division of Eaton Corporation that certain valve components of Eaton Model 21 Anti-Lock Systems are potentially defective. The trailer valves were manufactured with a component which, after an undetermined time in field service and when not rebuilt with an Eaton rebuild kit, may jam and prevent the brakes from functioning properly.

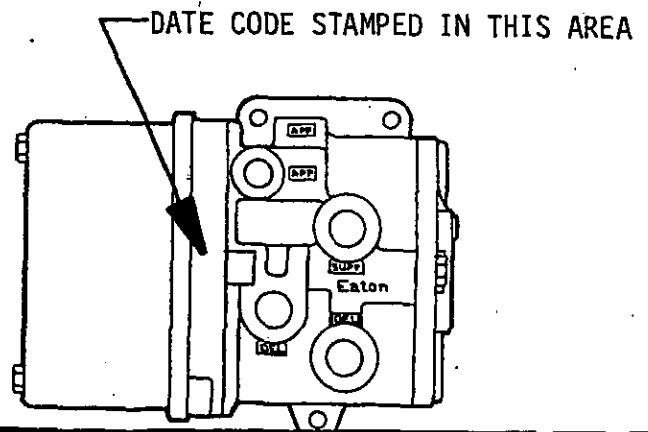
Chance Manufacturing Co. is requiring ride owners to check the date codes on the skid control valves. Date codes are stamped into the top cover on the same side as the valve air delivery ports. Valves with date codes 274-74 through 244-77 must be replaced. Ride owners will be billed for the new valve and the amount will be credited to their account upon receipt of the old valve.

The attached CERTIFICATION OF COMPLIANCE must be completed and returned to Chance Manufacturing Co. within seven (7) days of receipt of kit.

If you have any questions concerning this Service Bulletin, please contact Chance Manufacturing for assistance.

YEAR PRODUCED  
274-74  
DAY OF YEAR PRODUCED

DATE CODE EXPLANATION



BULLETIN # 3

# 03550



Number: B37-0234-00

Date: 5-21-82

Supersedes:

America's Largest Manufacturer of Amusement Rides

# SERVICE BULLETIN

Effective Serial Numbers: ALL UNITS

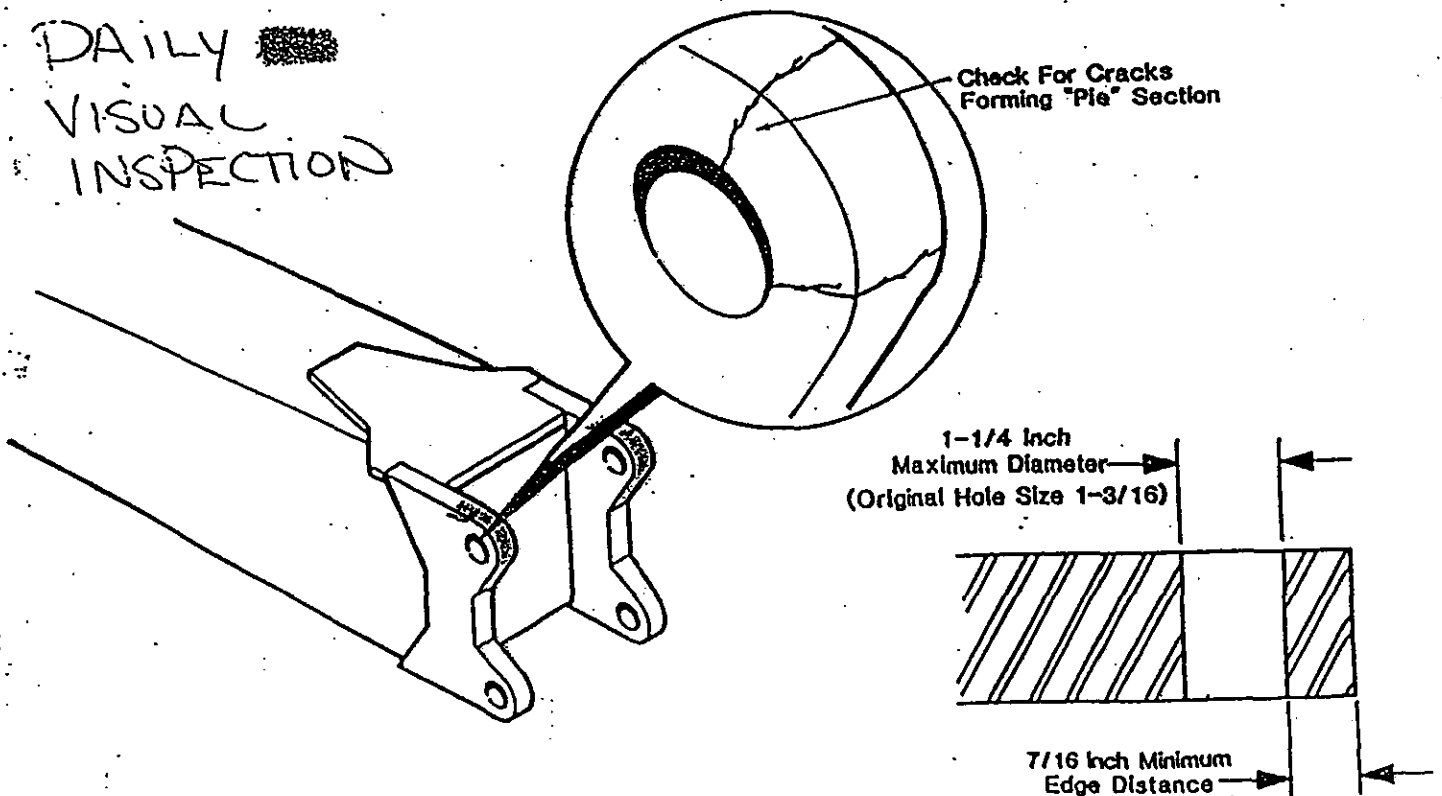
Ride: FLYING BOB/MUSIC FEST

Subject: SWEEP EARS

We have received information during the last year, of isolated failures of one of the sweep ears on the FLYING BOB/MUSIC FEST single sweep. The failures have all occurred on the upper portion of the ear. A pie shaped portion of the ear has been cracked or has actually fallen out. Should this occur in both upper ears, a sweep could fall.

Please inspect the sweep ears for cracks and measure hole size and edge margin as indicated. The matching ears on the center double sweep should also be checked.

DAILY  
VISUAL  
INSPECTION



All owners are asked to report any adverse conditions to Chance Mfg. Co., Inc.

Factory and Sales Office: 4219 Irving • P.O. Box 12328 • Wichita, Kansas 67277 • (316) 942-7411





Number: B37-0251-0A

Date: June 30, 1986

Supersedes: B37-0251-00  
(2-24-84)

America's Largest Manufacturer of Amusement Rides

# SAFETY ALERT

Effective Serial Numbers: All Units

Ride: FLYING BOBS/MUSIC FEST/THUNDERBOLT  
THUNDERBOLT

Subject: Inspection and Adjustment  
Of Spreader Bars



WARNING: FAILURE TO COMPLY WITH THIS SAFETY ALERT BULLETIN  
CAN RESULT IN INJURY TO PASSENGERS.

Service Bulletin No. B37-0251-00 is superseded by this Safety Alert Bulletin. It is no longer in effect and should be destroyed.

CHANCE MANUFACTURING CO., INC. has determined, by observation in the field, that the spreader bars on several rides are not correctly adjusted. The proper operation of the spreader bars is essential on FLYING BOBS, MUSIC FEST and THUNDERBOLT amusement rides. Worn, damaged or improperly adjusted spreader bars can cause damage to the sweeps, spreader bars and center hub, and cause rough operation, which can result in injury to passengers.

READ THESE INSTRUCTIONS THOROUGHLY AND BECOME FAMILIAR WITH THE ENTIRE PROCEDURE. All work must be performed by competent, qualified mechanics, capable of understanding the function of the parts and their proper installation.

Complete the spreader bar inspection and adjustment procedure using the instructions provided on the following pages of this bulletin. Fill out and return the attached Certification of Compliance for the procedure within fifteen (15) days from receipt of this bulletin.

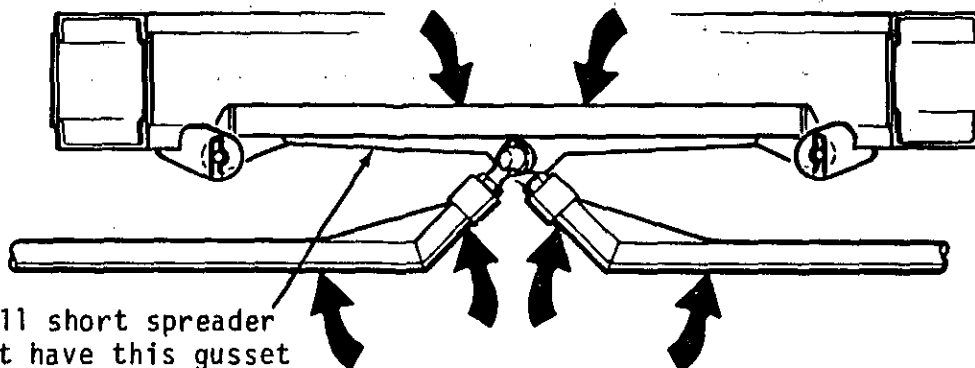
Factory and Sales Office: 4219 Irving • P.O. Box 12328 • Wichita, Kansas 67277 • (316) 942-7411

## INSPECTION OF SPREADER BARS

Before adjusting the spreader bars, inspect all spreader bars for cracks or bends as described in Service Bulletin Nos. 140 and A37-0250-00. For convenience, the inspection points are described below.

Inspect for cracks in the areas indicated by arrows in the following illustration. Also check the spreader bar mounting points for worn bushings or pins. If wear or damage is found in any of these areas, contact the CHANCE CUSTOMER SERVICE DEPARTMENT immediately.

DO NOT OPERATE THE RIDE WITH QUESTIONABLE SPREADER BARS.

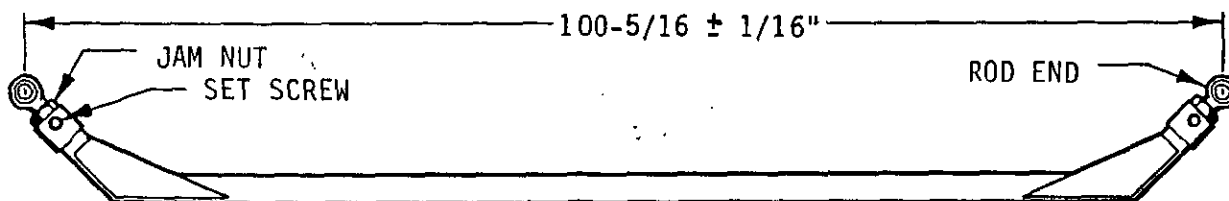


NOTE: All short spreader bars must have this gusset

IMPORTANT: Do not attempt to repair spreader bars in the field. Any spreader bar which has been welded, drilled or otherwise repaired must be discarded and replaced with a new part.

## SPREADER BAR ADJUSTMENT PROCEDURE

1. Remove all long spreader bars.
2. Loosen ALL jam nuts and set screws.



3. Measure the length between the rod ends, center to center, on all long spreader bars. This measurement must be  $100-5/16 \pm 1/16$  inches. Adjust the length by turning the rod ends.

IMPORTANT: Both rod ends must be threaded into the sockets an equal number of turns. Always adjust both rod ends equally within one-half turn.

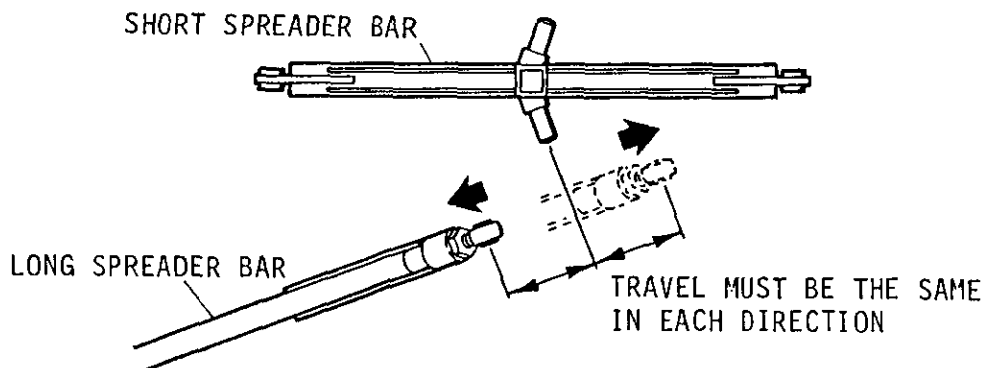
4. Install the long spreader bars on the ride. Install all pins.

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N.J.D.O.L.  
COMPLIANCE  
SAFETY

5. Remove one end of the long spreader bar which is  $180^{\circ}$  from the master sweep (driving sweep).
6. Rotate the ride counterclockwise one complete revolution by hand using two or three men.

NOTE: Open the hand valve on the hydraulic motor for ease of turning.

As the ride turns, measure the distance the disconnected rod end travels in relation to the pin on the short spreader bar. This distance of travel must be the same each direction from the pin.



7. If the travel is equal in both directions, install the spreader bar and tighten all jam nuts and set screws.

If the travel is not equal in both directions, adjust the length of each long spreader bar (either longer or shorter) by turning the rod ends. ALL SPREADER BARS MUST BE THE SAME LENGTH. If one spreader bar is adjusted to a longer length, ALL spreader must be lengthened by the same amount.

Repeat STEPS 6 and 7 until the travel is equal.

8. Permanently mark all sweeps so that they can be installed in the same location every time the ride is set up.
9. Check spreader bar adjustment every time the ride is set up.



# Certification of Compliance

SERVICE BULLETIN A37-0251-0A  
(6-30-86)

We hereby certify the procedure outlined in the above-mentioned service bulletin has been performed on the FLYING BOBS, MUSIC FEST and/or THUNDERBOLT

Serial No(s) \_\_\_\_\_, in accordance with the instructions and specifications supplied by Chance Manufacturing Company, Inc.

Date Bulletin Received \_\_\_\_\_

Date Procedure Performed \_\_\_\_\_

Name and Address of Person performing Procedure:

\_\_\_\_\_  
\_\_\_\_\_

**Attested:**

Owner \_\_\_\_\_

Maintenance Supervisor \_\_\_\_\_

Address \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_

By: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Results: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

This certification must be completed and returned to Chance Manufacturing Company, Inc. within fifteen (15) days of receipt of the bulletin



Number: B37-0337-00  
Date: March 9, 1989

Supersedes:

*America's Largest Manufacturer of Amusement Rides*

# SERVICE BULLETIN

Effective Serial Numbers: 71-2701 through 76-2732

Ride: FLYING BOBS

Subject: Vehicle Frame Pivot  
Inspection and Repair

It has been determined by CHANCE MANUFACTURING CO. INC. that cracks can develop in the vehicle frames on early model FLYING BOBS.

The owner of the above noted FLYING BOBS amusement rides are therefore required to inspect their rides as described in this bulletin. Perform the inspection using the instructions on the reverse side of this bulletin. Return the Certification Of Compliance within 15 days from receipt of the bulletin.

The inspection must be performed by qualified personnel, capable of understanding the function of the parts and their proper installation. If there are any questions regarding the instructions or this inspection, contact the CHANCE CUSTOMER SERVICE DEPARTMENT.



00-1500-00

INSPECTION PROCEDURE

Check the vehicle frame on each vehicle using the following procedure.

1. Remove the floor inspection cover from inside the vehicle.
2. Measure 23" down the centerline of the vehicle from the cover plate around the frame opening.
3. Make two marks, each one 2" to the side of the center as shown.
4. From the underside of the vehicle, cut two 2-1/2 inch diameter holes in the fiberglass, using the marks made in Step 2 as centers.

**IMPORTANT:** Be careful not to cut into the metal frame beneath the fiberglass.

5. Thoroughly clean the area and use a light to inspect the vehicle frame for cracks as shown. Use a mirror as required to see all sides of all parts. Inspect the top and both sides of the frame from inside the vehicle. Inspect the bottom and both sides of the frame through the holes in the fiberglass.
6. Check the operation of the frame pivot bearings. Look for excessive looseness or other signs of wear or damage to the bearings and/or frame.
7. Move the upper frame from side to side. Look for wear marks near the opening in the vehicle body, or excessive side-to-side movement, which indicates wear or damage to the bearings and/or frame.

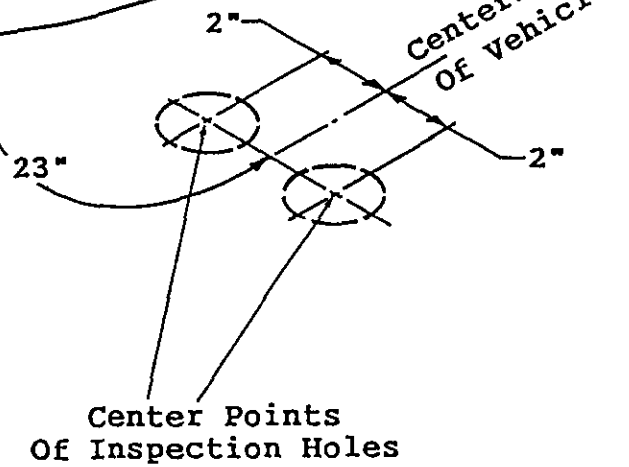
THIS INSPECTION MUST BE PERFORMED AT LEAST TWICE EACH OPERATING SEASON.

If cracks or any unusual condition exist on any of the frames, contact the CHANCE CUSTOMER SERVICE DEPARTMENT immediately. DO NOT OPERATE THE RIDE.

CHECK FOR  
SIDE-TO-SIDE  
MOVEMENT

VIEW LOOKING  
DOWN THROUGH  
ACCESS OPENING

CHECK FOR  
WEAR MARKS



VIEW LOOKING  
UP THROUGH  
INSPECTION HOLE



NUMBER: B337R1090-0

DATE: DEC. 15, 1990

SUPERSEDES:

America's Largest Manufacturer of Amusement Rides

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# SERVICE BULLETIN

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Effective Serial Number: All Units - Chance Manufacturing Co., Inc.

Chance Rides, Inc. SPECIFICALLY DISCLAIMS ANY LIABILITY for losses associated with rides produced by Chance Manufacturing Company, Inc.

Ride: FLYING BOBS

Subject: Double Sweep Inspection

Chance Rides, Inc. requires all owners of FLYING BOBS amusement rides to inspect the double sweeps for cracks around the bearing housing support plates. Inspection must be done as shown in the illustration on this bulletin. If the plate cracks, failure of the part could occur, resulting in possible injury to passengers.

If any cracks are found, contact the Chance Rides Customer Service Department. DO NOT ATTEMPT TO REPAIR OR WELD. DO NOT OPERATE the ride until the Chance Rides, Inc. approved repair rework kit number K337R1090-0 has been properly installed. If no cracks are found during inspection, the kit is not required.

All work must be performed by qualified personnel, capable of understanding the function of the parts and their proper installation.

## NOTICE

Use only those components authorized, specified or provided by Chance Rides, Inc.

Chance Rides, Inc. SPECIFICALLY DISCLAIMS ANY LIABILITY for losses associated with any unauthorized alterations and/or modifications or additions and installations of unauthorized components.

## INSPECTION PROCEDURES

1. Thoroughly clean all areas to be inspected. All areas must be free of grease and other foreign materials which could hamper inspection.
2. Visually inspect all areas as indicated on the illustration below.
3. This inspection must be done every 30 days or at each set up, whichever occurs first.

