Venture Ride Mfg., Inc.

MFG: VENTURE RIDE MFG., INC.
NAME: MINI HIMALAYA
TYPE: KIDDIE

DATE: FEBRUARY 22, 1990

TO: STATE INSPECTORS

RE: OPERATOR'S MANUAL FOR MINI HIMALAYA

Carl Kimble from the State of Illinois has made us aware of a discrepancy in a weight listed in the "Passenger Capacity" section of the ASTM F698-83 standards (Physical Information to be Provided for Amusement Rides and Devices) portion of our Mini Himalaya operations/maintenance manual.

The correct weight should be listed as 5040 lbs. in sub-sections 3.12.1 and 3.12.2 of Section 3.12.

For your convenience, we have enclosed a corrected page for you to add to your reference file.

If you have any questions, please contact our office.

Sincerely,

Wayne P. Comstock
President

WPC/mc
Encl.

cciall specialists

1861 S. HIGHWAY 14 • GREER, SC 29650 USA • (803) 877-3328 • FAX (803) 877-5698

3.10.1 Mechanical

Two 5 horsepower electric motors are required to operate the ride.

3.11 Load Distribution Per Footing

3.11.1 Maximum Average Static Loading on each foot pad (48 on ride) is 150 lbs.

3.11.2 Maximum Dynamic Loading of each footing is 300 lbs.

3.12 Passenger Capacity

3.12.1 Maximum Total Passenger Weight - 5040 lbs.

3.12.2 Maximum Number of Passengers

56 children at 90 lbs. each, or combination of adults and childen not to exceed 5040 lbs., or 360 lbs. per car.

3.13 Ride Duration

The recommended ride duration is two (2) minutes if operated in one direction only, or 1-1/2 minutes per direction if forward and reverse are used.

3.14 Recommended Balance of Passenger Loading or Unloading

Precise weight distribution is not critical to the operation or safety of the ride.

3.15 Recommended Passenger Restrictions

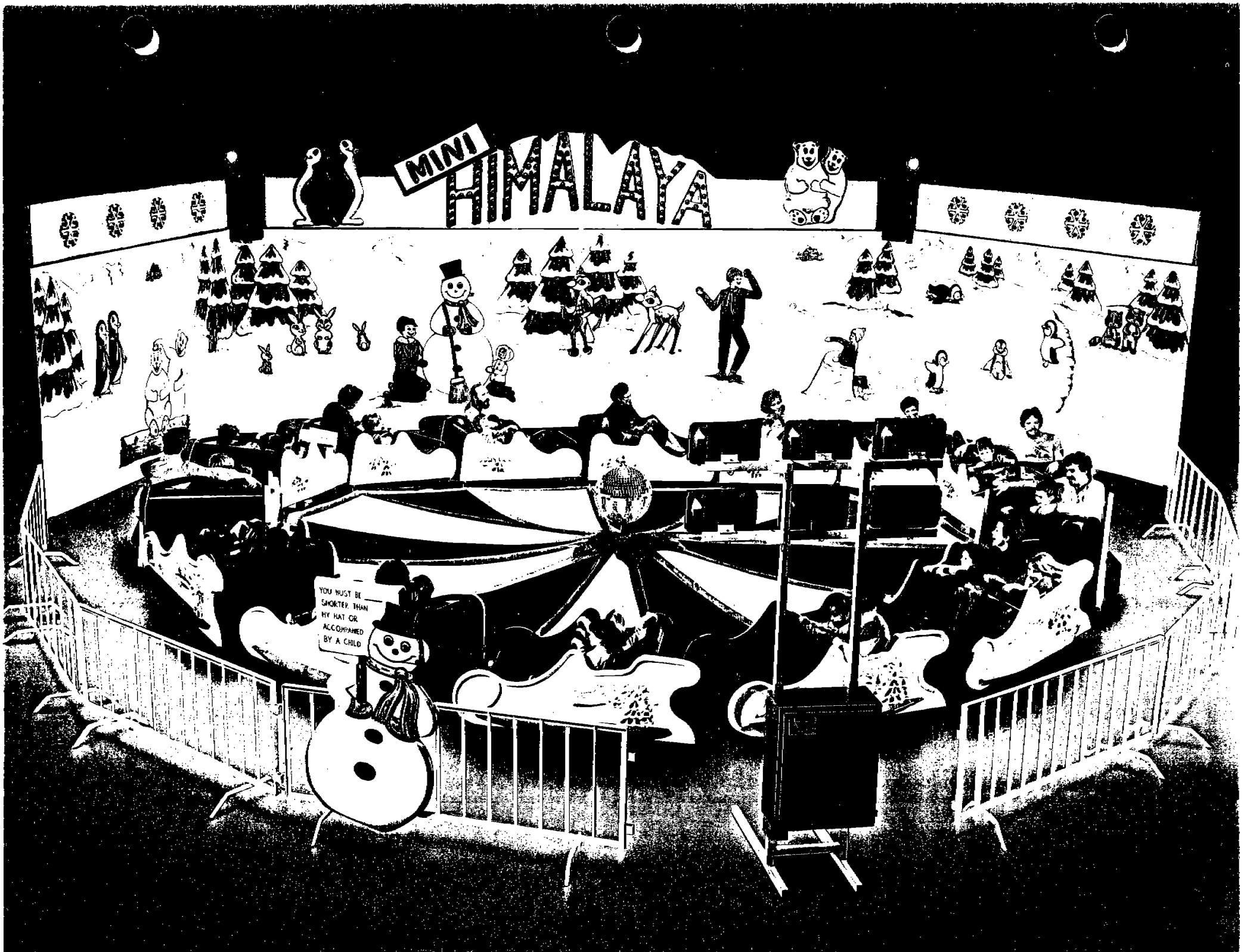
No children under age 3 unless accompanied by parent. No person suspected of drinking. No obese persons.

3.16 Enviromental Restrictions

The ride should not be operated in a high wind, rain or other condition which would impede traction of the drive motors, limit visibility of the ride operator, or result in slippery conditions for loading or unloading.

3.17 Fastener Schedule

All fasteners, pins, cables, safety ropes and cleats must be replaced with items provided by the manufacturer.


MINI
HIMALAYA
YOU MUST BE
SHORTER THAN
MY HAT OR
ACCOMPANIED
BY A CHILD

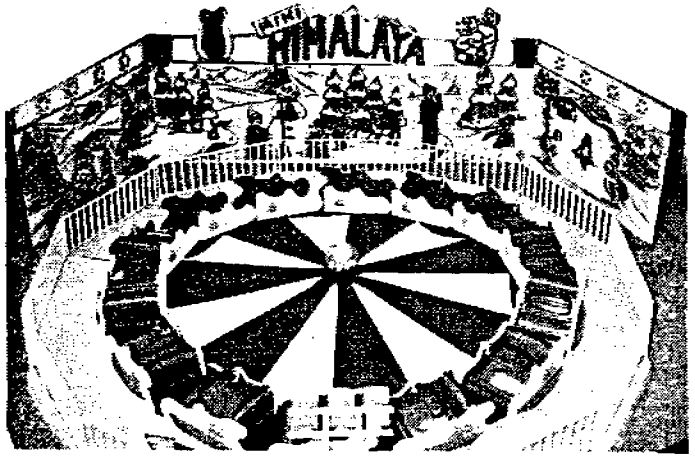
MINI HIMALAYA

Pat. Pend.

The **MINI HIMALAYA** has proven to be one of the most popular FAMILY RIDES ever manufactured. Its 12 RPM forward and reverse ride thrills kids and adults as well. The **MINI HIMALAYA** is available in both park and portable variations.

Both models feature fourteen cars capable of riding up to 42 passengers. Each car has a swing-away lap bar, making loading and unloading fast and simple. The control panel includes a compact disc sound system, driving two high-range speakers. Six quartz lights automatically flood the ride in a colorful program, accented by pin spotlights reflecting off the large mirror ball in the center of the ride.

A thrilling ride and a spectacular sound and light show make the **MINI HIMALAYA** one of the most popular rides on the midway.



The park model **MINI HIMALAYA** features aluminum treadplate decks and fitted fence. Also available without back scenery, the **MINI HIMALAYA** is the perfect centerpiece for family-oriented parks.

MADE IN U.S.A.

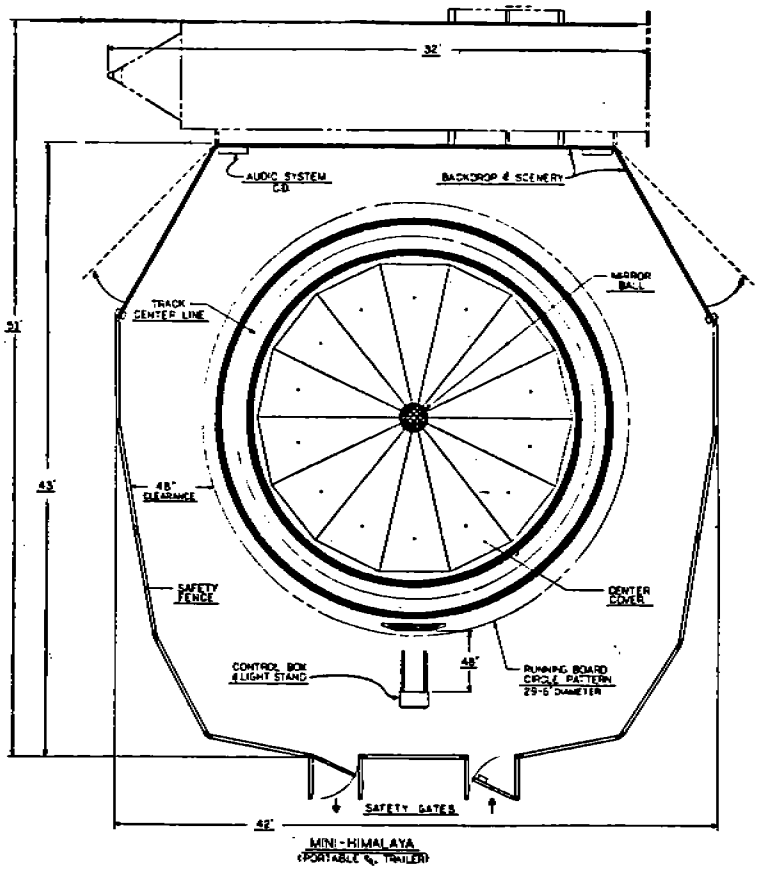
SPECIFICATIONS

PORTABLE MODEL

TRAILER: 8'-6" W x 33'-6" L x 13'-4" H
GROSS TRAILER WEIGHT: 13,400 lbs.
SCENERY: Aluminum folding
HITCH: Ball or gooseneck
SPACE REQUIRED: 42' x 51' deep
POWER: 10 KW, 3-phase, 220 volts AC
CONTROLS: Electronic soft start
SPEED: 12 RPM, forward & reverse
All-aluminum fence and safety gates

PARK MODEL

WITH SCENERY: 45' x 43' deep
WITHOUT SCENERY: 36' diameter
WEIGHT: 7100 lbs.
Steel fence fitted to ramp contour



Advantage Rides MANUFACTURING INC.
Featuring The Venture Line
1861 SOUTH HWY. 14, GREER, SC 29650 USA
PHONE: 803-877-3328 FAX: 803-877-5698
1-800-848-8238

MINI HIMALAYA

This manual is for the Mini Himalaya Amusement Ride.

Your Serial Number is _____

Your ride was manufactured _____

10 YEAR OVERHAUL

All rides manfactured by VENTURE RIDE MANUFACTURING, INC. are designed to operate for 16,000 hours* or 10 years; whichever comes first, with proper maintenance. After which the ride must have a complete overhaul** including non-destructive testing of all critical components. This service must be performed in a fully qualified factory, in our factory, or under our direct supervision. The cost of this complete overhaul varies with the condition and type of ride. Often it will be approximately 1/2 the cost of a new ride. Failure to perform this overhaul can produce unexpected catastrophic failures.

* Hours are measured as time ride is open to the public

** Includes updating of all safety equipment, additions of safety improvements, replacement of modified or damaged structure, replacement of damaged electrical wiring and electrical components, replacement of worn or damaged passenger restraints and the additional repair or replacement of any part for the purpose of safety.

MINI HIMALAYA

The following is presented in accordance with ASTM F698-83 Standard Specification for PHYSICAL INFORMATION TO BE PROVIDED FOR AMUSEMENT RIDES AND DEVICES.

INFORMATION REQUIREMENTS

3.2 Ride Serial Number

3.2.1 Name Plate

Located on the control panel or base structure.

3.3 Model Number

The name MINI HIMALAYA is used in lieu of a model number.

3.4 Date of Manufacture

Located on the name plate.

3.5 Trailering Information

The trailer used to transport the HIMALAYA is 13'5" x 8'5" x 32' and weighs 6140 lbs. without the ride.

3.6 Static Information

The ride excluding scenery in a rest position on the ground is approximately 50" high and 30' in diameter. The fence diameter is 41'. The ride weighs 13,000 lbs.

3.7 Dynamic Information

When the ride is operational, its dimensions are the same as when it is at rest.

3.8 Ride Speed

3.8.1 Maximum Revolutions per Minute - 12 R.P.M.

3.9 Direction of Travel

Circular, forward and reverse

3.10 Power Requirements

3.10.1 Electrical

The ride requires 220 volts, 3-phase, 50 amps, 10 KW. The voltage should not vary 10% from this recommendation.

3.10.1 Mechanical

Two 5 horsepower electric motors are required to operate the ride.

3.11 Load Distribution Per Footing

3.11.1 Maximum Average Static Loading on each foot pad (48 on ride) is 150 lbs.

3.11.2 Maximum Dynamic Loading of each footing is 300 lbs.

3.12 Passenger Capacity

3.12.1 Maximum Total Passenger Weight - 4200 lbs.

3.12.2 Maximum Number of Passengers

56 children at 90 lbs. each, or combination of adults and childen not to exceed 5040 lbs., or 360 lbs. per car.

3.13 Ride Duration

The recommended ride duration is two (2) minutes if operated in one direction only, or 1-1/2 minutes per direction if forward and reverse are used.

3.14 Recommended Balance of Passenger Loading or Unloading

Precise weight distribution is not critical to the operation or safety of the ride.

3.15 Recommended Passenger Restrictions

No children under age 3 unless accompanied by parent. No person suspected of drinking. No obese persons.

3.16 Enviromental Restrictions

The ride should not be operated in a high wind, rain or other condition which would impede traction of the drive motors, limit visibility of the ride operator, or result in slippery conditions for loading or unloading.

3.17 Fastener Schedule

All fasteners, pins, cables, safety ropes and cleats must be replaced with items provided by the manufacturer.

The following information is provided in accordance with ASTM F770-82, STANDARD PRACTICE FOR OPERATION PROCEDURES FOR AMUSEMENT RIDES AND DEVICES.

Manufacturer's Responsibility

3.1.1 Description of the Ride, Function and Operation

The ride consists of fourteen cars mounted on a circular track driven by two (2) five horsepower motors turning at 12 R.P.M.

3.1.1.1 Description of the Motion

The ride runs clockwise or counter-clockwise in a circle over two humps in the track.

3.1.1.2 Description of the Recommended Passenger Loading Procedures

The ride operator should unlock the entrance gate and permit the proper amount of persons to enter the ride area only after the ride has come to a complete stop. The largest rider should be seated on the outside of the car.

3.1.2 Recommended Safety Procedure

3.1.2.1 Maximum Riders, Weight and Ride Total

The ride should carry no more than four (4) small children per car or 56 children at 90 lbs. each or less, or a combination of adults and children not to exceed 5040 lbs. or 360 lbs. per car.

3.1.2.2 Description of Passenger Restraint

The seat safety rope is used to restrain the passengers. The ride operator should insure that the safety rope is properly laid across the rider's lap, making sure that no arms are under it, passed around the steel retaining bar on the outside panel, over the outside back of the seat, into the rope cleat, and cinched securely before starting the ride. The ride operator should inform the riders to remain seated until he returns to let them out.

3.1.2.3 Ride Operator's Safety Check

Before the ride starts, the ride operator or attendant should circle the ride, making sure that each rope restraint is locked into its cam cleat, and that no one is inside the fence. During the operation of the ride, a visual check can be made by looking at the rope cleat to insure that no rope has been removed from the cleat. The operator and/or attendant should watch the ride at all times it is in motion, making sure that no one attempts to stand up. Any abnormal facial or body expressions is reason to turn the ride off immediately.
NOTE: Do not let anyone sit on or lean over the fence while the ride is in motion.

3.1.2.4 Instruction to the Patrons

Remain seated until operator signals the ride is over.

3.1.1 Operator's Location and Operating Procedure

The operator should not reverse the travel of the ride until it has come to a complete stop. The operator should stand at the front of the ride facing the ride at all times. The operator should understand the distance it takes the ride to stop relative to the amount of passengers on the ride. Avoid "jogging" the ride into a particular position.

3.1.3.1 Daily Pre-Opening Inspection

1. Check all safety ropes to insure that the rope is not frayed or damaged, and that all cam cleats are operating satisfactorily.
2. Check all taper lock bushings on the four drive wheels and the two pulley shafts to insure that they are tight.
3. Check all safety cables to insure that they are attached properly.
4. Check all wheels to make sure that they are turning freely and that there is no appreciable wear or erosion.
5. Check all joint pins to make sure that they have a safety pin properly inserted.
6. Disengage and engage all 14 safety ropes making certain all cam cleats are operating properly.

7. Run the empty ride. Listen for unusual noises. Observe if the ride is starting faster or slower than normal.
8. Make certain the control box lid is properly closed.
9. Check all electrical ground cables looking for tripping dangers and bare wires.
10. Clean up the area.
11. Check all electrical plugs and connections on the control box.
12. Check to make sure that the ground wire is properly installed at its power source connection.
13. Be alert and think safety the rest of the day.

3.1.3.2 Ride Operator's Position and Function

The ride operator(s) and attendants should assist anyone requiring help to get into the ride. The ride operator(s) should be behind the control box or the fence if more than one operator is used in the operation.
NOTE: Never let anyone sit or lean over the fence while the ride is running.

3.1.3.3 Recommended Series of Steps to Operate the Ride.

1. Open the gate to the ride and let in riders.
2. Open the safety rope and let the rider sit in the seat.
   NOTE: Place heaviest riders to the outside of the seat.
3. Properly attach the safety rope per 3.1.2.2.
4. Inform each rider to stay seated until the ride is stopped.
5. Circle the ride to make sure that all ropes are secure.
6. Replace the gate.
7. Stand behind the control box and start the ride.
8. Operate the ride the lengths of time recommended per 3.13 of F698-83.
9. When the ride is at a complete stop, detach the safety ropes and assist the riders out if necessary.
10. Open the exit gate.
11. Close the exit gate.

3.1.4 Emergency Prodedures

If anyone begins to stand up in his seat, stop the ride immediately.

3.1.4.1 Recommended Evacuation of the Ride
Evacuate the ride through the front gate exit.

3.1.4.2 Use of Emergency Power Equipment - N/A

3.1.4.3 Description of Emergency Equipment - N/A

3.1.4.4 Description of any Emergency Procedure Made Necessary by an Interruption of Power, and Restart Procedures - With the interruption of electricity, turn off the ride and do not restart until checking that everyone is securely seated and no one is inside the fence.

The following is presented in accordance with ASTM F 853-83, Standard Practice for MAINTENANCE PROCEDURES FOR AMUSEMENT RIDES AND DEVICES.

3.1.1 Description of the ride

The Kiddie Himalaya is a circular ride consisting of fourteen cars attached in a continuous circle and powered by two 5HP motors. It runs forward and reverse and travels at a speed of 12 RPM.

3.1.1.1 Description of motion

The ride runs on a circular track which has a regular rise and fall configuration of two hills and two valleys.

3.1.2 Recommended set-up procedure

1. Select an appropriate area of 50' deep x 41' front.

2. Position the trailer at the rear of the location centering the back scenery at the center of the back line.

3. Level the trailer.

4. Unpin and lift the control panel from the front of the trailer. Set it in the front of ride approximately forty feet from the trailer and run the cables back toward the trailer.

5. Unpin and open the two wings placing the jackstand under each end.

6. Attach the wing braces running from the trailer to the back of the wings.

7. Attach the wind brace to each wing and stake down.

8. Set the center slip ring approximately 20 feet from the trailer at the center of the scenery.

9. Remove the track from the side of the trailer and place on the ground at least five feet from the trailer in front of the scenery.
NOTE: Start with the lowest track section placing the lowest end at the center-line of the scenery. Work either way from that point, taking care to match up the welded numbers.

10. Complete the circle. Do not bolt one high section at the right of the circle as you face

the scenery. Remove this section after the track is bolted together. NOTE: Use only 3/4" x 4 1/2" grade 5 bolts with a lock nut or lock washer. Do not use any other size.

11. Extend the boom from the top rear of the trailer and pin into place.

12. Unpin the rear car on the top of the trailer and move it under the chain-fall or winch.

13. Secure the lifting frame under the two rubber covered grab bars and lift the weight of the car off the track.

14. Slide the car off the end of the track and lower it onto the "wheelbarrow ".

    CAUTION: Never stand under a car while being raised or lowered to or from the trailer!

15. Take the car to the open section of the track and slide it onto the track with running board to outside.

16. Repeat steps 12-15.

17. Using the same pin that hitched it on the trailer, pin the first two cars together making sure that the head of the pin is on the center side of the car tongue.

18. Secure with a 3/16" safety pin.

19. Repeat these steps using up to five regular cars. Do not use a drive car as the last car on the ride. Its weight makes it difficult to slide the track together. The drive cars should be 180 degrees apart.

20. Remove a drive car next attaching it as the rest. Run the power cord to the center slip ring and connect to its mating twist lock plug. NOTE: Center the slip ring by attaching the four alignment bars to the base of the slip ring and attaching the other end to the track jackstand pockets.

21. Repeat as above until the last car is ready to install. Move the loose section of track as close to the opening as possible and slide the car onto the track.

22. Slide the track section and car into position.

23. Bolt the last section of track together.

24. Pin the last cars together.

25. Attach all safety cables from one car to the next, securing them with a safety pin or cotter pin.

26. Spread the center tarp over the center slip ring. The grommets go over the 3/8" pins on the top table of the slip ring. Insert 1/8" hairpins to secure the tarp.

27. Place the mirror ball on top at the slip ring and pin into place.

28. Attach the tarp to each end of each car using the hooks provided.

29. Locate and attach the lighting cables to their respective signs.

30. Mount the speakers in their proper locations at the hinge point, top, of the scenery on the trailer.

31. Aim the spotlights at the mirror ball.

32. Remove the fence from the trailer and set it up according to the layout provided at the rear of this manual.

33. Attach the main power cord to its power source. CAUTION: Use 220 volt, 3 phase with a neutral and a ground wire. Color code: Green - Ground; Orange - Hot; Black - Hot; Red - Hot; White - Neutral.

34. Conduct a maintenance safety inspection as outlined in 3.1.3.1 of ASTM F 770-82, Section 3, Manufacturer's Responsibility.

35. Turn on all breakers and check to see if all lights and sound equipment are operational.

36. Run the ride by turning the spring loaded switch to forward. Run for 10-15 revolutions. Stop the ride by releasing the switch. After a complete stop, reverse the ride for 10-15 revolutions.

37. Check the taper lock brushings again to make sure they are properly seated.

38. The ride is now ready to operate.
IMPORTANT: Read Section 3.1.3.3, Recommended Series

of Steps to Operate the Ride, of ASTM F 770-82, before riding patrons.

39. Disassembly of the ride is done in the reverse order of the steps described above.
CAUTION: Never diassemble with any electrical power circuit on. Disconnect the main power lead before disassembly.

40. Before moving the ride on the trailer make a visual check to make sure all pins used in holding equipment on the trailer have an approved safety pin securing the pin in its proper location.

41. Check all running lights, brake lights and clearance lights before towing.

42. Be sure there is an approved safety pin or padlock in the hitch latch and that safety chains have been properly attached.

43. Check to be sure that the electric brakes are operating properly and that all tires are properly inflated.

3.1.3 Recommended Lubrication Procedures

3.1.3.1 Recommended Types of Lubricants

1. Wheel bearings on the cars should be packed with multi-purpose lithium base grease.
2. The swivel bearings should be greased with a grease gun using multi-purpose lithium base grease.
3. The scenery hinges should be oiled with any medium weight lubricant.
4. The trailer bearings should be packed with multi-purpose lithium base grease.

3.1.3.2 Recommended Frequency of Lubrication

1. Check all wheel bearings on the cars at least once every four weeks to make sure bearings are greased.
2. On earlier model Mini Himalayas, Serial Numbers 18001 through 18005, grease the swivel bearings on each tongue at least once every six weeks of operating.
3. Lubricate the hinges on the scenery wings at least once a year.

4. Lubricate the bearings on the trailer every 10,000 miles.

3.1.3.3 Lubrication Chart - N/A

3.1.3.4 Recommended Special Lubrication - N/A

3.1.4 Description of Recommended Daily Pre-Opening Inspection

See 3.1.3.1 of F770-82.

3.1.5 Description and Frequency of Recommended Maintenance Inspections and Testing Other Than Daily Pre-Opening Inspections

3.1.5.1 Recommended Wear Limits or Tolerances

1. Drive wheels are to be checked weekly and replaced when their outer diameter does not exceed the follwing dimensions:
   A. Outer drive wheel = 4-1/2"
   B. Inner drive wheel = 4"

2. Wheels that run on top of the track should be checked weekly and replaced when their outer diameter does not exceed 4-1/2".

3. Horizontal guide wheels running against the vertical leg of the outside track should be checked weekly and replaced when their outer diameter does not exceed 4-1/2".

4. Guide wheels running against the horizontal and vertical legs of the track should be checked weekly and replaced when their urethane wears to less than 1/2" thick.

3.1.5.2 Recommended Operational Tests

1. At each set-up point or at least weekly, the ride should be run and timed to be sure it is running at 11.9 - 12.1 RPM. If it is not, check the following:

   A. Is the proper voltage being used to operate the ride? Voltage in excess or less than the prescribed amount can damage motors, lights, sound and circuitry.

B. Are the drive wheels within the tolerance noted in 3.1.5.1 of this section: Wheels run below tolerance may eventually fail, causing expensive down time.

3.1.6 Recommended Specifications for the Use of Replacement Fasteners

1. The pins used to join one car to another should be factory manufactured original equipment grade. No substitute is recommended.

2. Pins used to join the safety cables should be 1/2" diameter mild steel, 2-1/2" long with a 1/8" hole for a cotter pin or safety pin.

3. Safety cables should be replaced with factory manufactured originals. No substitute is recommended.

4. Only castle nuts should be used as replacement nuts on all wheel shafts. A cotter pin must be used in each nut.

3.1.7 Electrical Schematic - See Appendix

3.1.7.1 Description of Recommended Maintenance for Electrical Components

See appendix for individual manufacturer's recommendations.

3.1.8 Schematics of Hydraulics and Pneumatics - N/C

3.1.9 List of Parts Used in the Assembly - See Appendix

3.1.10 Non-Operating Procedures

Minor scratches in fiberglass can be buffed out by using a fine grit auto rubbing compound and following up with a coat of wax. Deep scratches (deeper than the gel coat) - call the factory for a repair kit. State color required.

Cracks due to mishandling or abuse can be repaired from the underside using fiberglass mat and activator. Be sure surface is clean and dry.

Clean fiberglass with a soft cloth and a mild liquid detergent. Do not use scouring powder, steel wool or an abrasive cleaner as this will dull the surface.

Models with aluminum fence and safety gates - clean aluminum with dry Scotch Brite green scouring pads (available at most grocery stores).

3.1.11 Description of Recommended Assembly and Disassembly Techniques as Deemed Necessary by the Manufacturer

N/A

VENTURE
Ride Mfg., Inc.

JERRY L. BARBER, President
WAYNE P. COMSTOCK, Vice-Pres.

TO: HIMALAYA Owners
RE: Overheating in motors

Should you get overheating of your motors on your Kiddie Himalaya, it most likely will be one of four reasons:

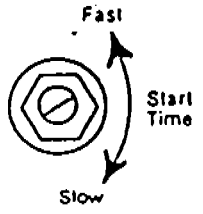
1. SINGLE PHASING: Should a wire come loose between the slip ring and one motor, it will cause single phasing in that motor. The other motor will then be required to do all of the work. Should this occur, the operator will notice that start-up time on the ride takes twice as long as normal. Failure to correct this situation will cause both motors to burn out. Most likely, the source of this problem is a loose wire in one of the electrical plugs between the motor and the slip ring.

2. LOW VOLTAGE: The electric motors and soft start are rated at 230 volts, and the minimum operating voltage is 220V. If you must operate on a 208V system please contact the factory.

3. REVERSING MOTORS TO USE THE MOTORS AS A BRAKE: Except when used for an emergency stop, motors should never be reversed until the ride comes to a complete stop. Otherwise, overheating will occur.

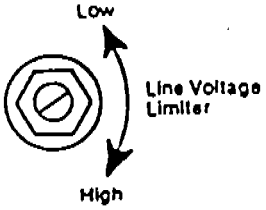
4. SETTINGS OF THE SOFT START ADJUSTMENTS:

A. START TIME ADJUSTMENT



1. Turn off power.
2. Loosen the locking nut.
3. Set at FASTEST speed.
4. Lock the adjustment by tightening the locking nut.

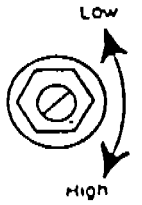
B. LINE VOLTAGE LIMITER



1. Turn off power.
2. Loosen the locking nut.
3. Set at HIGHEST setting.
4. Lock the adjustment by tightening the locking nut.

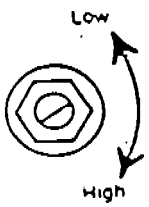
continued.....

C. PFC VOLTAGE (Energy Saving Adjustment)



1. Turn off power.
2. Loosen the locking nut.
3. Set at HIGHEST setting.
4. Lock the adjustment by tightening the locking nut.

D. INITIAL TORQUE



1. Turn off power.
2. Loosen the locking nut.
3. Set at fastest possible start without spinning wheels on dry track.
4. Lock the adjustment by tightening the locking nut.

Please feel free to call our office if you have any questions regarding this notice.

Jerry L. Barber

Jerry L. Barber, President
March 14, 1986

JLB/md

Venture
Ride Mfg., Inc.

JERRY L. BARBER, President
WAYNE P. COMSTOCK, Vice-Pres.

S A F E T Y B U L L E T I N

TO: Owners of Children's Himalaya
DATE: Oct. 30, 1985

#1--Always use a lock washer on the bolt and nut which holds the track together. There are 24 of these bolts on the ride.

#2--Never stand under a Himalaya car while raising or lowering it with chain hoist onto trailer.

If you have any questions, please contact us immediately.

Sincerely,

Jerry L. Barber

Jerry L. Barber
President

JLB/md

CERTIFIED MAIL
RETURN RECEIPT

ROUTE 8 • BOX 111-C • HIGHWAY 14 • GREER, SOUTH CAROLINA 29651 • (803) 877-3328 • TELEX 805 257