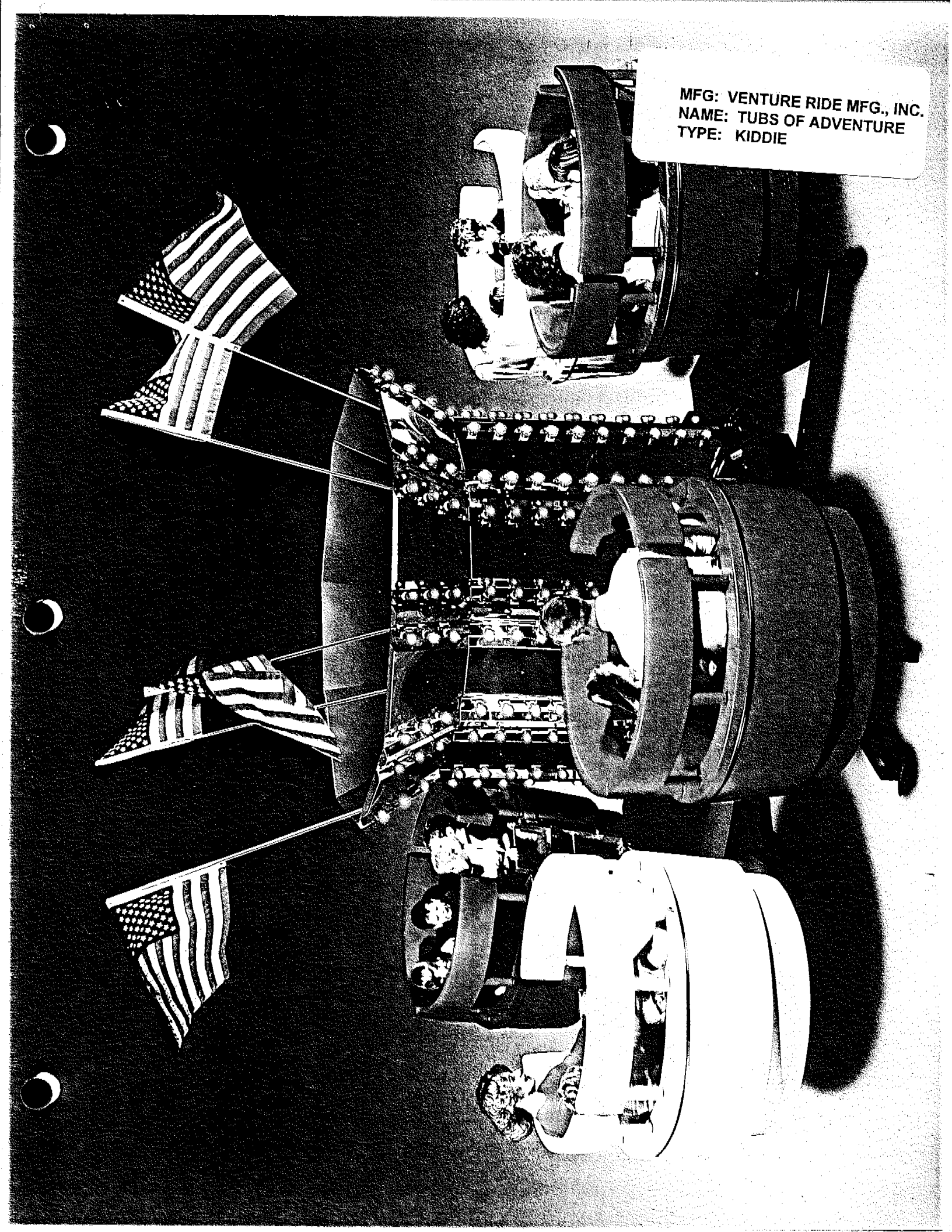
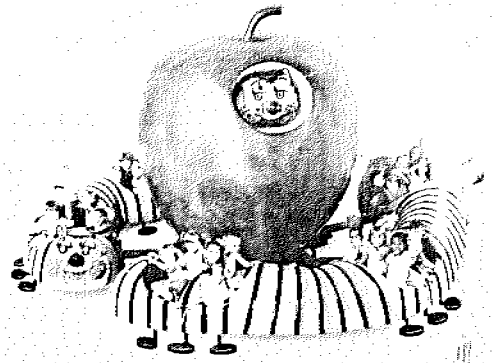

MFG: VENTURE RIDE MFG., INC.
NAME: TUBS OF ADVENTURE
TYPE: KIDDIE

TUBS OF ADVENTURE

Pat. #4,513,960

- *PERFECT FOR P.O.P. OPERATIONS*
- *HIGH CAPACITY*
- *IDEAL FOR INDOOR PARKS*
- *LOW PRICE*



The WORM Wiggles

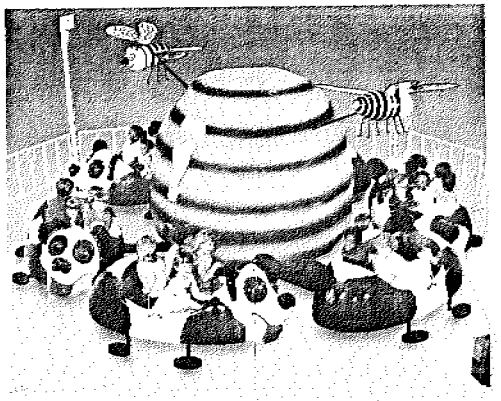
INTRODUCING our first FAMILY-GO-ROUND

The TUBS OF ADVENTURE gives a thrilling, spinning round and round, up and down ride for the whole family. Kids as well as adults can spin the tubs at their own pace.

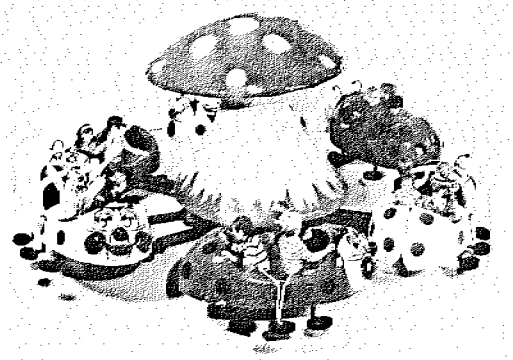
Built on a heavy-duty, maintenance-free center drive proven on Venture-Go-Rounds in operation world-wide, TUBS OF ADVENTURE uses a 2 HP, 220 volt, single-phase motor controlled by an electronic soft start. The ride is 7'-5" high, with a 26' fence diameter. An optional racked trailer is available, including a boom and hoist for easy set-up.

Each tub has its own electric brake which gently but firmly stops the tubs and holds them for safe entry and exit. Up to six passengers can ride in each of the red, white and blue metal flake fiberglass and steel vehicles. Custom headrests made of soft urethane provide a protective padding for riders.

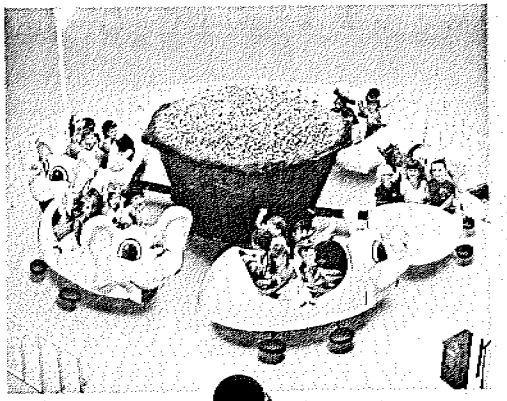
Center scenery on the TUBS OF ADVENTURE is stainless steel, mirror-finished to capture the reflection of the spinning tubs, flashing lights and American flags that complete the theme.



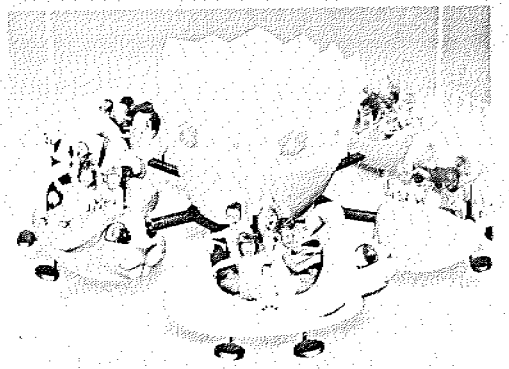
The PANDA Lopes



The GRANNY BUG Hops



The ELEPHANT Flies



The RABBIT Bounces

Venture Ride Mfg., Inc.

1861 So. Main, Hwy. 14, S.C. 29651 U.S.A.
PHONE: 803-877-3328 TELEX: 805257

Tub of Adventure

May 1987

This manual is for the TUBS OF ADVENTURE Amusement Ride manufactured by Venture Ride Mfg., Inc.

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.

TUBS OF ADVENTURE

The following is presented in accordance with ASTM F698-83, Specification for Physical Information for Amusement Rides and Devices.

INFORMATION REQUIREMENTS

3.2 Ride Serial Number

Located on the name plate.

3.2.1 Name Plate

Located on the control panel or base structure.

3.3 Ride Model Number

The name Tubs of Adventure 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 Tubs of Adventure is 8'x 24'and weighs 2,220 lbs. Venture also supplies a trailer to transport two kiddie rides. It is 8'x 34' and weighs 2,400 lbs. Some trailers have an optional 13'6' high electric hoist.

3.6 Static Information

The set up dimensions are height approximately 8', diameter 20', fence diameter 26' and weight 3,800 lbs.

3.7 Dynamic Information

Same as 3.6

3.8 Ride Speed

Maximum of 10 revolutions per minute.

3.9 Direction of Travel

The ride operates in forward circular directions only.

3.10 Power Requirements

3.10.1 Electrical
The ride requires 220 volts, single phase (a three phase special order model is available) 30 amps 3 kw. The voltage should not vary more than 10%.

3.10.2 Mechanical

Two horsepower

3.11 Load Distribution per Footing

3.11.1 Maximum static loading of each footing is 1,880 lbs.

3.11.2 Maximum dynamic loading of each footing is 1,910 lbs.

3.12 Passenger Capacity

3.12.1 Maximum total passenger weight

3,720 lbs total or maximum of 620 lbs per seat

3.12.2 Maximum number of passengers

36 total - maximum of 6 per seat or 620 lbs. per seat.

3.13 Ride Duration

Recommended time is two minutes. Never more than four minutes.

3.14 Recommended Balance of Passenger Loading & Unloading

Does not effect operation of ride provided there is no more than 620 lbs. per seat.

3.15 Recommended Passenger Restrictions

No one under one year of age. Maximum size is limited by physical size of seat compartment.

3.16 Environmental Restrictions

As common sense dictates.

3.17 Fastener Schedule

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

OPERATION PROCEDURES

The following is presented in accordance with ASTM F770-82, Standard Practice for OPERATION PROCEDURES FOR AMUSEMENT RIDES AND DEVICES.

MANUFACTURER'S RESPONSIBILITY

3.1.1 Description of Ride

The ride is a flat circular ride with six arms each supporting a 6 passenger vehicle.

3.1.1.1 Description of Motion

The vehicles travel in a circular motion at 10 rpm making four 9" hops with each revolution.

3.1.1.2 Description of Passenger Loading

Each vehicle seats up to 6 persons. Small children need assistance getting into the vehicles. The aluminum gate must be shut before starting the ride.

3.1.2 Recommended Safety Procedures

Check the gate latch to make sure it is closed properly. Make certain everyone is clear of the vehicles and outside the fence before starting ride. To start the ride you must set the timer button and hold the go button down simultaneously. Should you release the go button or have a power failure you must reset the timer button to start the ride again.

3.1.2.1 Maximum Passenger Number and Weight

Total number of passengers is 36. Total weight is 3720 lbs - 620 lbs per seat.

3.1.2.2 Passenger Restraint

All passengers must be in a sitting position with knees under the wheel.

3.1.2.3 Ride Operator Safety Check

First, open entrance gate and allow proper number of riders in.
Next, help smaller children.
Next, secure tub gate.
Next, close entrance gate.
Next, check and double check that no one is anywhere inside the fence who is not secured in a seat.
Next, check that everyone is clear and properly seated using the concave mirror to see behind the center.
Next, operate the ride while watching the fence, watching the passengers and staying alert for the unexpected.
Next, stop the ride, open the exit gate, open the tub gates and assist the smaller children off the ride.
Next, close the exit gate.
NOTE: Do not let anyone sit on or lean over the fence while the ride is in motion.

3.1.2.4 Instructions to Patrons
No horseplay.

3.1.3 Manufacturer's Operating Procedure

The control stand should be at the entrance to the ride.

3.1.3.1 Daily Pre-Opening Inspection

1. Check that all fence is stable and the proper distance from the vehicles.
2. Visually check each entire sweep for cracks
3. Visually check the pin and pin ears of each sweep at the center of the ride. Make certain each safety pin is in place.
4. Check the tub gate to insure that the latch and hinge is operating properly.
5. Run the empty ride. Listen for unusual noises. Observe if the ride is starting faster or slower than normal.
6. Adjust the concave mirror on the light tower to see behind the scenery.

7. 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. Be alert and think safety the rest of the day.

3.1.3.2 Ride Operator's Functions

Described in 3.1.2.3 and 3.1.3

3.1.3.3 Operation of Ride

Described in 3.1.2.3

3.1.4 Emergency Procedures

Stop the ride - turn off all circuit breakers in the control box.

3.1.4.1 Evacuation Procedures

Keep everyone as orderly as possible.

3.1.4.2 Emergency Power Equipment - N/A

3.1.4.3 Description of Emergency Equipment - N/A

3.1.4.4 Power Interruption - Emergency Procedure

None

MAINTENANCE PROCEDURES

The following is presented in accordance with ASTM F853-83, Standard Practice for MAINTENANCE PROCEDURES FOR AMUSEMENT RIDES AND DEVICES.

MANUFACTURER'S RESPONSIBILITY

3.1.1 Description of Ride

The ride is a flat circular ride with six arms each supporting a six passenger vehicle.

3.1.1.1 Description of Motion

The vehicles travel in a circular motion at 10 rpm making four 9" hops with each revolution.

3.1.2 Installation Procedure

The ride may be transported in a properly racked semi-trailer, straight truck or trailer. A minimum of 24' is required. After selecting a location for the ride, carefully move the center section by winch or lift truck. Level the ride on firm footing. Next, unload the tubs and pin to the center sweeps.ing and place the steel wheels on the pipe ring. Make certain all hair pins are in the 6 main pins and that all 6 wheels are riding on the pipe ring. NOTE: Some portable models have the arms hinged in the middle and the sweeps are never taken off the ride, only folded down by removing and replacing the small pin at the hinge point.

Next, plug in the electric brakes at the sweep hinge point. Next, set up the fence and lights keeping the feet at least 3' from the vehicles. Make certain the fence is stable. Next, plug in electrical cord from center section into panel box. Connect electrical lead in cable to power source. You are now ready to turn on the circuit breakers and precede with the start-up safety check per 3.1.3.1 Operation Procedures. Disassembly of the ride is simply the reverse of the above. When transporting the ride make certain everything is securely fastened down, that highway tires are in good condition, wheel lugs are tight and trailer brakes and lights are working properly.

3.1.3 Lubrication Procedures

Steel Wheels
The six steel wheels connected to the sweeps roll on tapered roller bearings. These should be greased monthly using a general purpose lithium grease. Grease the pin holding the wheel assembly to the sweep through the zerk to insure that it pivots up and down easily.

Pipe Ring
The pipe ring on which the steel wheels roll does not necessarily need lubrication, although, a light coat of any type lubricant will extend its life. If you notice any cutting or rapid wear at this ring you have a steel wheel housing which is not pivoting up and down.

Main Sweep Pins
The six main sweep pins which connects the sweeps to the center should be lightly oiled with motor oil each time the ride is assembled. For permanent operations or those rides with swing up sweeps, they should be greased through the zerk on the sweep.

Gear Box
See separate gear box information at the back of this manual.

Gear box to center chain - Once per month spray the chain with chain lubricant.

The top center main shaft taper roller bearing should be removed and repacked with wheel bearing lithium grease every two years.

The bottom center main shaft sleeve bearing is self lubricating, but should be inspected every two years.

3.1.4 Pre-Opening Inspection

Same as 3.1.3.1 Operation Procedures

3.1.5 Frequency of Maintenance

Daily - correct any problems found in the pre-opening inspection.
Every two weeks, check the following:
all tub gates operate properly.
all electric brakes are working properly.
center pipe ring is in good condition.
motor belts are in good condition and properly adjusted.

gear box chain is in good condition and properly adjusted.
check all fiberglass for sharp edges or structural damage.
check center main sweep pins that they are within tolerance.
check steel wheel housing to see if they pivot freely up and down and for excess wear in the pivot pin.
check steel wheels that they are turning freely and smoothly.
check all steel structure for cracks.
check all electrical lines for frays and cuts.
check fence connections and feet.
check entrance and exit gates.
operate the ride and listen for any unusual noises.

3.1.5.1 Wear Tolerance

The center main sweep pins should be 1" + .010" - .031".
The holes for the main sweep pins should be 1" + .031" - .000".
The pipe ring on which the steel wheels ride should be replaced when any cracking or cutting occurs.

3.1.5.2 Operational Testing

Same as 3.1.5

3.1.6 Fastener Specifications

All bolts are grade 5. Main center sweep pins must be replaced by factory or made to special factory specifications.

3.1.7 Schematics of Electrical Power

Included later on this manual.

3.1.7.1 Maintenance-Electrical Components

See separate sheet for soft start. Motor contactor points, replace as needed, normally every 3-5 years.

3.1.8 Hydraulic & Pneumatic Schematics

N/A

3.1.8.1 Maintenance Hydraulic & Pneumatic Systems

N/A