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Amusement Devices & Manufacturing LLC

209 North Berwick St. P.O. Box 106

Schaller, IA 51053

Phone: 712-275-4226 | Fax: 712-275-4100

www.rentalrides.com

TO:

Douglas B Barker

3306068233 C

3308255848 P

www.barkerfamilyentertainment.com

This letter is to state that the Pirates Revenge, Super Sonic, Shockwave, Firestorm, Ballistic, Mind Winder, Boomerang, Wrecking Ball, Tubs of Fun, Super Slide, Wizzer ride is built according to ASTM 1193-18 and F2291-18, F770-18 standards. We have also put this in revised manual as well. Please note this for your inspection service.

Brian Woodke/ ADMLLC/ President

Doug your used Wizzer SN # KO420 will meet standards



WIZZER MANUAL

AMUSEMENT Devices & Mfg LLC.
303 EAST 1ST STREET
SCHALLER, IOWA, 51053
712-275-4226
712-275-4100 FAX

**ASTM F 698-88; Standard Specification for
PHYSICAL INFORMATION TO BE PROVIDED FOR
AMUSEMENT RIDE AND DEVICES.**

INFORMATION PLATE:

3.2.1 Ride Serial Number:

Trailer vehicle ID number:

.2 Ride Name and Manufacturer:

"WIZZER"

Manufactured by Amusements Unlimited Inc.

303 East 1st Street

Schaller, IA 51053

(712) 275 4226

.3 Ride Model Number:

.4 Date of Manufacture:

.5 Ride Speed:

MANUALY OPERATED

.6 Direction of Travel:

Counter Clockwise

.7 Passenger Capacity by Weight:

4 seat at 200 lbs. : 800 lbs. With all seats loaded

.8 Passenger Capacity by Numbers:

4 passengers

3.3 Ride Duration:

2.5 to 3 minutes on maximum speed. Maximum of 4 minutes

3.4 Recommended Balance of Passenger Loading or Unloading.

Passengers must be loaded to balance across diameter of the Ride.

3.5 Environmental Restrictions.

Do not operate during thunderstorms or rain

The Ride must be installed on level terrain in order to prevent uneven balance during the ride.

The Ride must be set up only on hard soils

3.6 Recommended Passenger Restrictions:

Max 200 lbs. Min. height of 42 inches. No persons with heart conditions or other health conditions for which the ride may be detrimental should use the ride. Forces applied to each patron at maximum speed approximate 1.7 G, or a pressure close to twice their weight.

3.7 Electrical power requirements:

NONE

3.8 Mechanical Power Requirements:

3.10 Static Information

The ride including the trailer weighs approximately 1200lbs.

During set-up wood blocking must be used. The ride's corner supports must be in tight with the blocking at all times. When the ride is installed on softer soils the blocking must be checked periodically during the period of operation, at a minimum every hour until it has been assured that the blocking has stabilized. This check must be done while the ride is not in operating or loaded.

3.11 Dynamic Information

The ride's revolutions are manually operated. The diameter of the WIZZER is 20 feet. The operator shall not leave his position when the Ride is operating. He shall have his hand(s) on the BRAKE control at all times when the Ride is moving when passengers loaded.

3.12 Trailering Information.

The ride is identified by the trailer Vehicle Identification Number.

The trailer is built for over the road interstate use and must be approved by the Department of Transportation of the State of the Owner's residence. It is designed to carry the ride at regular highway speeds safely when sweeps and supports are secured. The trailer must not be loaded with loads that are not part of the Ride. The sway bars shall always be installed when the Ride is towed.

3.13 Fastener Schedule.

All fasteners must be replaced in kind, in grade and size. See torque chart.

3.15 Elements and Structure.

3.15.1 Maximum static design loads of each footing or equivalent structural connection.

When the ride is loaded with 8 persons the load on each corner support is 2,400 lbs when the vertical supports are not engaged. The Ride shall never be operated without the corner supports in place set tight on the blocking.

3.15.2 Maximum dynamic design loads of each footing or equivalent structural connection.

The dynamic loading is approximately that same as the static loading.

3.15.3 Any other structural interface design specification.

Specific attention shall be paid to:

Sweep connection at the center of ride.
bearings.

All mechanical attachments

**ASTM F 770-93; Standard Practice for
OPERATION PROCEDURES FOR AMUSEMENT RIDES AND
DEVICES.**

3. Manufacturer's Responsibility

3.1.1 Description of the ride and device operation including the function and operation of its major components.

The Wizzer Ride. rotates at manually operated speed and spins in ccw direction. The seats are fastened to a central hub. The Ride is rotated by a sprag clutch that engages and rotates the arms. The Brake is located at the front of the ride for the operator.

3.1.1.1 Description of the motion(s) of the ride or device during operation.

The ride spins in ccw direction as fast as they pull the handles.

3.1.1.2 Description of the recommended passenger loading procedure during operation included recommended seating, where applicable.

The patrons shall be loaded to balance the Ride. Patrons must be loaded diametrically across from each other if all seats are not fully loaded. The operator must assist and check that each seat belt is locked and he shall instruct patrons not to open seat belt under any circumstances before the ride has come to a complete stop. He shall also instruct patrons to remain in their seats if they have problems and need help.

3.1.2 Recommended safety procedures and instructions, and information about safety equipment pertaining to patrons and ride or device operator and attendants.

3.1.2.1 Maximum total passenger weight and maximum number of passengers by carrier unit or ride total.

Maximum total passenger weight is 800 lbs

Maximum number of passengers is 4

3.1.2.2 Description of passenger restraint system, its recommended use and operation.

Patrons are restrained by a seat belt that goes across the waist. The use of seat belts are mandatory on all patrons. The horizontal component has a plastic snap closure. Hand grab bars are located in front of patron.

3.1.2.3 Ride or device operator and attendant check: Recommended visual or other inspections to be performed by ride or device operators and attendants prior to and during each ride or ride cycle.

Sign at entrance explaining safety to Patrons.

The Operator checks that all patrons are seated and the seat belts secured. When the Attendant is located at the brake the patron starts the Ride and runs it at low speed for 30 seconds or more while he checks patrons' well being and safety. He keeps surveillance on the Patrons at all times and shall stop the ride if anything occurs that may threaten the safety of patrons on the Ride, outside, or any staff member. He shall keep his hand on the brake at all times. When the Ride stops, he shall assist patrons to unload safely. If any patron remains in the seat after the Ride has stopped, he shall immediately go to the patron's assistance. The Operator is responsible for maintenance and adjustments of the Ride during the time he is operating.

The Attendant will screen patrons and refuse admission to non conforming patrons. After the ride has been loaded, the Attendant checks that nobody are inside the perimeter fence, he closes the admission gate in the Ride perimeter fence and helps the Operator checking that all seat belts are locked. He goes to the exit gate and keeps general surveillance while the Ride is moving and warns the Operator of any unusual and unsafe conditions. When the ride stops, he opens the exit gate and then assists patrons getting safely out of the seats. He directs the patrons to the exit gate. The attendant is responsible for the maintenance of the fencing and for the ground inside the fencing.

3.1.2.4 Instructions to the patron: Recommended information that should be made available to each patron of the ride or device.

Sign at entrance and operator instructions;
You must be 42" or taller to use this ride
Only one person in each seat
Keep seat belt fastened at all times
Ask attendant for help if needed
Remain seated if you need help to get out of the seat after the ride
No food, No drink on ride
Throw no objects from ride

EXIT signs with arrows should be placed on the perimeter fencing to guide the exiting patrons in an orderly and controllable manner.

3.1.2.5 Recommendations for operational restriction relating to environmental conditions such as wind, rain, or temperature fluctuation.
Do not operate the ride during electrical storms or rain.

3.1.3 Manufacturer's recommended ride or device operating procedures, including the location of ride or device operators and attendants.

3.1.3.1 Description of the recommended, daily pre-opening inspection to be performed by ride or device operator(s) and attendants that is in addition to previously performed maintenance or other inspections

See attached Daily Checklist.

Complete safety checklist before starting ride.

Run the Ride through one full cycle at maximum speed.

3.1.3.2 Description of the recommended series of steps to be followed in a definite order to complete the operation of the ride or the device.

See 3.1.2.3

3.1.4 Manufacturer's recommended emergency procedures.

In an emergency stop the Ride immediately. When the Ride stops the Patrons may exit their seats in the normal at the ground level.

3.1.4.1 Recommended evacuation procedures for the ride or device.

If an emergency situation should occur during the operation of the ride, the brake shall be applied. As soon as the ride has come to a full stop, advise the patrons to open and remove their seat belts, get out of the seats and go to the exit. At the exit an attendant should wait and stop the exiting patrons in a safe area and assure that all patrons are un-injured. A brief narrative report should be made of the incident even if nobody was injured.

3.1.4.2 Use of emergency equipment, if provide with the ride or device.

Not required, the ride will stop by itself and patrons may get off the ride at ground level.

3.1.4.3 Description of any emergency equipment that is provided with the ride or device and its use.

No emergency equipment is supplied with the ride. The owner/operator should have a fire extinguisher available within the reach of the operator position suitable for electrical and hydraulic/rubber fires.

3.1.4.4 Description of any emergency procedure made necessary by an interruption of power, and restart procedures.

None required.

4. Owner/Operator's Responsibility

- 4.1 Each Owner/Operator shall read and become familiar with the contents of the manufacturer's recommended operating instructions and specification. Each Owner/Operator shall prepare an operating fact sheet. This fact sheet shall be made available to each ride operator and attendant of the amusement ride. The fact sheet shall include but not be limited to:**

4.1.1 Specific ride operation policies and procedures with pertinent information from the manufacturer's instructions.

See instructions above.

4.1.1.1 Description of the ride or device operation

See instructions above.

4.1.1.2 Duties of the specific assigned position of the ride operator or attendant.

See 3.1.2.3

4.1.1.3 General safety procedures.

See instructions above.

4.1.1.4 Additional recommendations of the Owner.

See instructions above.

4.1.2 Specific emergency procedures in the event of abnormal condition or an interruption of service

None required. See 3.1.2.3

4.1.3 The Owner/Operator shall provide training for each ride operator and attendant. This training shall include but not be limited to the following where applicable:

4.1.3.1 Instruction on ride or device operating procedures.

See 3.1.2.3

4.1.3.2 Instruction on specific duties if the assigned position.

See 3.1.2.3

4.1.3.3 Instructions on general safety procedures.

If any patron becomes sick during the ride stop the ride immediately. Help them off the chair ask if they need help, guide them to the ride entrance. Ask again if they need any help. If a child be sure that parents or guardians are present at the entrance.

4.1.3.4 Instructions on emergency procedures.

A fire extinguisher Class C shall be present on the Ride at all times. In case of fire on the ride the Operator shall immediately cut the main electrical breaker, the ride will gradually come to a stop. He shall then use the fire extinguisher if the fire can be reached from his position at the controls. Under no circumstances shall the Operator evacuate his position before the Ride has come to a full stop.

4.1.3.5 Demonstration of the physical ride operation.

A new Operator or Attendant shall be demonstrated the full cycle of operating the Ride until he fully understands all safety aspects of the operation. Ideally he shall watch other trained personnel operate the Ride with patrons on the Ride. Each new staff member shall personally use the ride through 2 cycles in order to understand the forces and sensations the patrons on the Ride are subject to.

4.1.3.6 Supervised observation of the ride or device operator's physical operation of the ride.

A new operator or attendant shall be given all written material on the ride pertinent to the position he/she will fill. The new staff member shall then be working under constant job supervision until he is thoroughly familiar with all operational and safety aspects of the job.

4.1.3.7 Additional instructions deemed necessary by the owner/operator.

Add as required.

4.1.4. The ride operator shall conduct a daily pre-opening inspection of the ride before carrying passengers. This inspection shall include but not be limited to:

4.1.4.1 Visual check all of the passenger carrying devices, including restraint devices and latches.

See daily checklist.

4.1.4.2 Visual inspection of entrances, exits, stairways, and ramps.

See daily checklist.

4.1.4.3 Test of all communication equipment necessary for the operation of the ride.

None required.

4.1.4.4 Prior to carrying passengers, the ride shall be operated for a minimum of one complete operating cycle.

See daily checklist.

4.1.5.2 Recommended operational tests, along with the minimum intervals for these tests to be performed, that will give the Owner to determine whether the ride is operating within the recommended prescribed operational limits.

4.1.5.3 Where applicable, recommended non-destructive testing along with appropriate acceptable criteria, including suggest frequency and the special parts or areas to be tested.

Visual inspections suggested. If areas of high stress show tendencies for developing failures that can not be found by visual inspections, a procedure for non-destructive testing will be recommended.

4.1.5.4 Tests recommended pursuant to 4.1.5 shall meet the following criteria:

- (a) The tests shall have been performed satisfactorily by the manufacturer prior to the sale of the amusement ride.
- (b) The test shall be a test which the amusement ride, or element, can be reasonably expected to pass during the expected life of the ride, or the element, assuming recommended maintenance and operating procedures have been followed.
- (c) The test shall be reasonable, which the owner can be expected to be competent to perform or cause to be performed.

4.1.6 Recommended specifications for the use of replacement fasteners, and recommended torque requirements for fasteners, where applicable. If appropriate, precautionary information will be provided relating to the continued use of fasteners that have been loosened or re-torqued.
All fasteners to be replaced in kind. There are no requirements for torque beyond the fastener manufacturers' recommendations.

4.1.7 Schematics of electrical power, lighting, controls, and other systems, including location charts and manufacturer's troubleshooting guide, where applicable.
None needed.

4.1.7.1 Description of recommended maintenance procedures for electrical components.
None Needed..

4.1.7.2 The name of the component manufacturer and appropriate identification number, specifications, or both, will be provided for electrical components used within the ride.
None Needed..

4.1.7.3 Each electrical component used within the ride will be assigned an individual identification number, symbol, or code to facilitate its location and identity on the electrical schematics.
None Needed.

4.1.8 Schematics of hydraulic and pneumatic systems, including recommended pressures, location of components, line specification, fitting specifications, type of fluid, location chart, and manufacturer's troubleshooting guide.

4.1.8.1 Description of recommended maintenance procedures for hydraulic and pneumatic systems and components.
None Needed.

4.1.9 List of parts used in the assembly of the ride, or drawings showing component parts and their use.
See component list.

- 4.1.10 Recommended procedures to be followed in the event of and extended period of non-operation or storage, or both.

The ride shall be stored covered from moisture and corrosive elements.

- 4.1.11 Description of recommended assembly and disassembly techniques and procedures, pertaining to specific components, as deemed necessary by the manufacturer.

See manufacturer's recommendations.

- 4.1.12 Recommended restrictions and special procedures, lubricants, materials, or equipment that may be necessary because of environmental conditions.

None foreseen.

- 4.1.13 Other recommendations known to the manufacturer and specific to certain serial numbered rides or devices.

None at this date.

- 4.2 The Owner/Operator may deny entry to any person, if in the opinion of the Owner the entry may cause above normal exposure to risk of discomfort or injury to the person who desires to enter, or if the opinion of the operator the entry may jeopardize the safety of other patrons or employees.

- 4.2.1. Ride operators should be given guidelines on the special considerations concerning patron size, and the special considerations applicable to physically disabled and mentally impaired patrons, related to their particular ride.

To be in accordance with the Owner/Operator's common policy adapted to the ride.

- 4.3 Signs shall be prominently placed, bold in design, with wording short, simple, and to the point.

Sign to be displayed at the entrance to the ride.

- 4.3.1 Signs to display operational instructions or requirements, or both, for use of the amusement ride may be posted at the waiting/loading area or other appropriate location and may include height requirements and other duties and obligations of the passengers such as but not limited to those listed in Section 5.

5. Owner/Operator's Responsibility

- 5.1 Each Owner shall read and become familiar with the contents of the manufacturer's maintenance instructions and specifications when received,

as provided in 3.1. Based on the manufacturer's recommendations each Owner shall implement a program of maintenance, testing, and inspections providing for the duties and responsibilities necessary in the care of each ride. This program of maintenance shall include a checklist to be made available to each person performing the regularly scheduled maintenance on each ride. The Owner's checklist for each ride shall include but not be limited to:

- 5.1.1 Description of preventative maintenance assignments to be performed.**
See daily pre opening checklist and checklist for each setup
- 5.1.2 Description of inspections to be performed.**
See daily pre opening checklist and checklist for each setup.
- 5.1.3 Special safety instructions, where applicable.**
When working on the work ramp use approved fall protection devices.
- 5.1.4 Any additional recommendations of the Owner.**
See checklists.
- 5.2 The Owner shall provide training for each person performing the regularly scheduled maintenance on the ride, pertaining to their assigned duties. This training shall include, but not be limited to the following:**
 - 5.2.1 Instruction on inspection and preventative maintenance procedures.**
See 5.1.1
 - 5.2.2 Instruction on the specific duties of the assigned position.**
See 5.1.1
 - 5.2.3 Instruction on general safety procedures.**
Follow general procedures for each operation as recommended by manufacturer and applicable safety codes and regulations.
 - 5.2.4 Demonstration of the physical performance of the assigned regularly scheduled duties and inspections.**
On the job training. Untrained personnel shall be instructed in and supervised by the Owner's maintenance supervisor until the supervisor is satisfied that the new maintenance personnel can perform their duties safely and in strict accordance with the manufacturer's instructions.
 - 5.2.5 Supervised observation of the maintenance person's physical performance of their assigned regularly scheduled duties and inspections.**
See 5.2.4

- 5.2.6 Additional instructions deemed necessary by the owner/operator.**
As required. Such instructions should be included in the ride's written training material.
- 5.3 Prior to carrying passengers, the Owner shall conduct or cause to be conducted a daily documented and signed pre-opening inspection, based on provided instructions, to ensure the proper operation of the ride. The inspection program shall include, but not be limited to:**
- 5.3.1 Inspection of all passenger carrying devices, including restraint devices and latches.**
See daily checklist.
- 5.3.2 Visual inspection of entrances, exits, stairways, and ramps.**
See daily checklist.
- 5.3.3 Functional test of all communication equipment necessary for the operation of the ride**
None required for this ride.
- 5.3.4 Inspection or test of all automatic and manual safety devices.**
Check seat belt latches. See also daily pre opening checklist.
- 5.3.5 Inspection or test of the brakes, including service brakes, emergency brakes, parking brakes, and back stop.**
See daily pre opening checklist.
- 5.3.6 Visual inspection of all fencing, guarding, and barricades.**
See daily pre opening checklist.
- 5.3.7 Visual inspection of the ride structure.**
See daily pre opening checklist.
- 5.3.8 The ride shall be operated for a minimum of one complete operating cycle.**
See daily pre opening checklist.
- 5.4 An amusement ride, or the specifically affected element, shall be appropriately inspected and operated, without passengers, to determine that it is functioning properly following an unscheduled cessation of operation caused by:**
- 5.4.1 Malfunction or significant adjustment, or**
- 5.4.2 Mechanical, electrical, or operational modification, or**

5.4.3 Environmental conditions that affected the operation, or any combination of the three.

Procedures for Set Up and Teardown:

(All personnel should wear hardhats and steel toe boots for these operations)

SET-UP ;

Locate level and firm ground with a diameter of approx. 20 feet.

Unhook ride from towing vehicle when it is placed in operating location.

Level the ride with the four frame jack stands set on wood blocking.

Remove tongue from hitch and store on trailer.

Remove fence elements from racks on the ride and set up in approx 20 ft diameter circle around the center of the ride.

Remove transport racks and store.

Unpin tub from transport holder and return pin to holder with r key

Check perimeter fence for clearance

TAKE DOWN AND MAKE READY FOR HIGHWAY TRANSPORT;

Reverse set up process.

Install tongue on ride hitch and secure.

Remove fence elements from perimeter and store on the ride.

Secure sweep locks and r key

Lift four frame jacks and secure in upper position. Remove wood blocking and store on trailer.

Perform visual inspection so that all equipment is secured on the trailer for transportation.

Check inflation of tires.

Hook up towing vehicle. Check that all brakes and lights are functioning.

**SUGGESTED DAILY PREOPENING CHECKLIST;
(TO BE PERFORMED BY THE OPERATOR)**

View the whole ride from the entrance gate, look for anything unusual. Check for overall cleanliness.

Inspect the perimeter fencing, adjust and repair as needed. Check for proper clearances to the ride. Check the inside of the perimeter for obstructions and sharp objects on the ground. Also check for holes or bumps on the ground where patrons could stumble and fall.

Check the signs at the entrance, are they adequate and visible and legible for all patrons?

Inspect the frame jacks, the corner outriggers and the blockings. Grab hold of the tub on each side of the trailer frame. Pull down with all your weight, try to shake the ride. Check for play in blocking or at the hub assembly.

Check all seats; the bolts penetrating the seat fastened to the tub; the seat belts and their fasteners.

Start the ride and run through a full cycle before allowing anyone on the ride. Check for smooth operation. Investigate excessive ride vibration or unusual sounds and noises.

Daily Inspection/Maintenance Checklist:

Hydraulic and Drive System

1. Always ensure that electricity is disconnected before any inspection or maintenance is done unless *there are multiple trained personnel and electricity is required for inspection*
2. Always ensure that you are properly trained to inspect or maintain equipment
3. If you are not qualified to fix or replace parts (hire a trained professional)
4. Always use MFG. recommended parts to fix or replace any damaged/worn or broken parts
5. Check hydraulic and drive system components for damage or leaks
6. Ensure there is proper voltage to drive system before operation
7. Check all drive belts for excessive wear or damage
8. Ensure all drive belts are correctly tensioned
9. Check all drive chains for proper lubrication and correct size
10. Check all drive chains excessive wear, stretching, cracking, or any damage
11. Ensure all drive chains are correctly tensioned
12. Check brake surface for excessive wear or damage. (Replace if necessary with MFG. recommended parts)
13. Check all gearbox oil levels, look for leaks
14. Check hydraulic oil levels
15. If any oil levels are low the ride is not allowed to operate
16. If adding or replacing hydraulic oil ensure that you use proper oils specified by MFG.
17. Check all belt guards and safety guards for damage
18. Ensure that all guarding is secure with correct bolts and fasteners
19. Check hydraulic valves for proper function/ damage or leaks *Do Not Adjust valve in any way. This may cause internal issues and damage*
20. Check drive motor and mounting for excessive wear/ damage/ or leaks
21. Check all drive sprockets for missing teeth/excessive wear/ or any damage
22. Check all cylinders for proper lubrication and operation
23. Check all cylinders for damage or leaks
24. Ensure all cylinders have proper pins or bolts or fasteners of correct size and grade
25. Check all drive systems if any excessive or unusual vibration or noise is found
26. Check all hydraulic fittings for damage or leaks (replace if needed with MFG. approved parts)
27. All lifting hydraulic cylinders must be visually inspected for proper installation
28. All lifting hydraulic cylinders must be visually inspected for any damage or leaks
29. Check electrical motor and pump operation to ensure proper function and pressure

- 30. Check all Hydraulic pumps to ensure all couplers are tight and spider joints are not worn or missing
- 31. Never grab or touch any moving hydraulic components

Electrical System and Lighting

- 32. Always ensure that electricity is disconnected before any inspection or maintenance is done unless *there are multiple trained personnel and electricity is required for inspection*
- 33. Always ensure that you are properly trained to inspect or maintain equipment
- 34. If you are not qualified to fix or replace parts (hire a trained professional)
- 35. Always use MFG. recommended parts to fix or replace any damaged/worn or broken parts
- 36. All rides must be inspected for proper electrical requirements
- 37. Be sure to pick a safe location for any generator or power supply
- 38. Make sure generator is properly sized to handle all electrical load before operation *failure to do so will void warranty*
- 39. Ensure generator guarding is intact and functioning properly
- 40. Ensure all rides are properly grounded at generator or power supply *this must be done before ever stepping foot on ride*
- 41. Ensure all transformers and generators are guarded from the public
- 42. Check main disconnect and operation station
- 43. Ensure that there is proper insulation on all wiring and cable
- 44. Visually check all electrical components and wiring for any damage, frays, short circuits, or bad wires
- 45. Ensure all electrical cable is proper size and type
- 46. Ensure there is proper connections on all plugs and electrical boxes
- 47. Electrical boxes need to be weather resistant and covered at all times
- 48. Ensure all warning signs and labels are visible and legible
- 49. Ensure proper labeling and warning signs for voltage, current, and usage
- 50. Ensure all electrical systems have proper voltage
- 51. Check lighting system for function and voltage
- 52. Check all electrical system components/wiring/switches/and safety switches for proper function/ or any damage
- 53. Inspect all power lead lines for proper termination and proper connections
- 54. Check all interconnecting cables to ensure that insulation and connectors are good
- 55. Check that all flexible conduit is secure and is in good condition
- 56. Check all electrical components for proper grounding

57. Never modify any electrical system unless MFG. has approved *if any system is modified or changed all warranty is void*
58. Check all control panel functions
59. Check all emergency procedures/ E-Stop for proper function
60. Check braking system for proper function
61. Check brake surface for excessive wear or damage. (Replace if necessary with MFG. recommended parts)
62. Check commutator and lock down collar for damage
63. Check commutator for proper voltage and function
64. Check all light fixtures for damaged lights and or damaged wires (Replace if necessary with correct MFG. approved parts)
65. Check and ensure all light fixtures are not damaged.
66. Ensure all light fixtures have correct bolts/pins/ fasteners of correct size and grade
67. Ensure all light fixtures are securely fastened to mounting surface
68. Check all lighting and ensure all lenses are in good condition if any damaged/broken or missing lenses are found replace them with proper MFG. approved parts
69. Check and ensure that no electrical cord is a trip hazard for any riders or patrons
70. Inspect drive motor to ensure it is correct size and in good condition
71. Check all drive systems if any excessive or unusual vibration or noise is found
72. Always repair or replace any loose or hanging wires with correct size and type

Mechanical Parts Including: platforms, handrails, steps, doors, ramps, walkways

73. Always ensure that electricity is disconnected before any inspection or maintenance is done unless *there are multiple trained personnel and electricity is required for inspection*
74. Always ensure that you are properly trained to inspect or maintain equipment
75. If you are not qualified to fix or replace parts (hire a trained professional)
76. Always use MFG. recommended parts to fix or replace any damaged/worn or broken parts
77. Ensure all entrance and exit steps are clear of any obstacles
78. Check and ensure all stairs and steps for stability and support with proper blocking
79. Check and ensure stairs and steps are no more than 8" from the ground to the first step
80. Check all panels, fencing, gates, platforms, handrails, doors, ramps, steps, and walkways for proper installation, damage or obstructions
81. Check and ensure all handrails in loading and unloading areas are functioning properly
82. Ensure all handrails are in good condition and free from sharp spots and are correctly fastened to mounting surface
83. Check platform and its components for wear, rust, cracks, and/or any damage

84. Check platform jack stands for proper installation and proper area to set on
85. Check all doors and steps for worn hinges and weak spring latches
86. Check for wear in bushings, linkages, joints, and hinges
87. Check ride cars/ tubs/ or passenger carrying vehicle for correct door latches and operation hinges
88. If any part is damaged or missing replace it with MFG approved parts
89. Check all latches for excessive wear or damage and that they function properly
90. Inspect all decking and steps for loose sections and possible trip hazards
91. Inspect platform decking to be sure there is no sharp points
92. Check all drive systems/mechanical parts if any excessive or unusual vibration or noise is found

Structural Components

93. Always ensure that electricity is disconnected before any inspection or maintenance is done unless *there are multiple trained personnel and electricity is required for inspection*
94. Always ensure that you are properly trained to inspect or maintain equipment
95. If you are not qualified to fix or replace parts (hire a trained professional)
96. Always use MFG. recommended parts to fix or replace any damaged/worn or broken parts
97. Check main trailer landing gear for tightness
98. Check all outrigger legs for tightness and excessive wear
99. Check overall ride for visible cracks or breaks
100. Check for wear and cracking on sweep mounting ears
101. Check blocking and leveling on ride before operation
102. Blocking should be 2x6 or better
103. Check tightness of leveling jacks
104. Check sweep attachment points for excessive wear and cracks
105. Check trailer base for damage or cracks
106. Check any structure on trailer for wear, rust, cracks, broken welds, or damage
107. Check all sweeps for broken or cracked welds
108. Check all sweeps for correct fasteners and cables
109. Check all spreader bars and related components for excessive wear, damage, and/or cracking
110. Check and ensure proper installation of spreader bars and proper sized pins/ bolts/ or fasteners of correct size and grade
111. Check that all signage is secure and has correct mounting hardware before operation
112. Check all signage for correct sized bolts/fasteners of correct size and grade

- 113. Check all signs and sign mounting hardware for cracks/ damage/ or excessive wear
- 114. Check welding on all stress points and joints
- 115. Check all scenery panel hinges for damage or wear
- 116. Check all scenery panels for proper braces and pins
- 117. Check and ensure all scenery panels and braces have correct bolts/ pins/ and fasteners of correct size and grade
- 118. Check for broken, worn, and/or missing parts
- 119. Replace any broken parts if possible with MFG approved parts
- 120. Check all main structure/main spindle mounts for cracks or breaks in welds
- 121. Check all sweep braces for correct and proper sized fasteners/ pins/ or bolts
- 122. Check the tower for damage, cracks, and deterioration
- 123. Check all scenery for proper mounting and deterioration
- 124. Check integrity of all structural components
- 125. Check all drive systems and any structural components if any excessive or unusual vibration or noise is found
- 126. Inspect all wind-braces for proper installation and proper bars are used to stabilize ride
- 127. Check sweeps for condition, and fastening hardware and spreader bars for proper pin sizes and safety clips
- 128. Check all upper scenery braces are installed with proper pins and R-keys

Safety Restraints Including: harnesses, lap belts, seat belts, lap-bars, crotch straps, cables, and lap- chains

- 129. Always ensure that electricity is disconnected before any inspection or maintenance is done unless *there are multiple trained personnel and electricity is required for inspection*
- 130. Always ensure that you are properly trained to inspect or maintain equipment
- 131. If you are not qualified to fix or replace parts (hire a trained professional)
- 132. Always use MFG. recommended parts to fix or replace any damaged/worn or broken parts
- 133. Check all seat belts and or safety restraints for damage or missing parts
- 134. Check all lap-bars and lap-chains for excessive wear and proper safety clips are used
- 135. Check all lap and shoulder restraints for damage or damaged mounting hardware
- 136. Check all seat components and mounting hardware for excessive wear and damage
- 137. Check all latches for excessive wear and/or damage and that they function properly
- 138. Inspect and ensure all seat restraints for proper latching
- 139. All safety restraints including: harnesses, lap belts, seat belts, lap-bars, cables, and lap-chains should be worn and used at all times *no exceptions*

- 140. Check that all seat restraints function properly with no excessive play
- 141. Check condition and operation of all snap-hooks. *Always use MFG. approved parts that are correctly sized*

Ride Seating Including: chairs, fiberglass tubs/baskets, metal seating, steering wheels, swing chains and any mounting hardware

- 142. Always ensure that electricity is disconnected before any inspection or maintenance is done unless *there are multiple trained personnel and electricity is required for inspection*
- 143. Always ensure that you are properly trained to inspect or maintain equipment
- 144. If you are not qualified to fix or replace parts (hire a trained professional)
- 145. Always use MFG. recommended parts to fix or replace any damaged/worn or broken parts
- 146. Always check overall condition of seating and seating components
- 147. Check overall cleanliness of seating before operation
- 148. While checking seating for overall condition also check seat restraints and mounting hardware for condition and correct installation and function
- 149. Check the overall condition of seating mounting surface for any deterioration/cracks/ or excessive wear/damage.
- 150. Check seat frames and mounting hardware for security and defects (chains, lap-bars, lap-chains, crotch straps, safety snaps, snap hooks, chest straps, and seat hangers
- 151. Check seat frames and mounting hardware for cracks, and excessive wear
- 152. Check all vehicle attachment bolts for security and defects
- 153. All vehicle attachment bolts need to be fastened with correct bolts/fasteners of correct grade and size.
- 154. Check all fiberglass for cracks/excessive damage or sharp spots
- 155. Check all metal seating for broken welds and sharp spots
- 156. Check all ride cars/tubs/or passenger carrying vehicles for proper movement
- 157. Check all swing chains for excessive wear, stretching, cracking, and/or other damage
- 158. Check condition and operation of all snap hooks *Always use MFG. approved parts*
- 159. Check all operations of swing chains for tangling, and correct installation of snap hooks
- 160. Check for proper ground clearance on all seating
- 161. Check all latches for excessive wear/damage and that they function properly
- 162. Any deterioration, cracks, holes, etc. in fiberglass should be fixed by a trained professional
- 163. Inspect underside of all tubs, seats, and passenger cars to ensure all welds, and bolts are in good condition. *replace or fix if necessary*
- 164. Ensure no seat has any snag points or sharp spots