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**HAMPTON RIDES  
UMBRELLA RIDES, INC.**

7330 Weber Lake Road  
Portage Des Sioux, MO 63373  
Ph. (314) 899-1729 · 1 (800) 776-1729  
Fax (314) 753-2215

**WAVE THUNDER (TRAILER MODEL)  
SET-UP PROCEDURE**

1. Locate trailer on solid and as near level ground as possible.
2. Remove fence from front of trailer, disconnect wiring from rear clearance lights, and remove fence racking bracket. Remove aluminum canopy racks from axle assembly by loosening small T-Handle pins in trailer frame and lifting racks out. Remove T-Handle pins securing switch box to front of ride and place switch box in desired location.
3. Locate the four (4) T-Handle 1" pins attaching the axle assembly to the trailer frame (these 1" pins are attached to the trailer frame with safety chain to avoid their loss). Remove the safety pins from the inside end of each 1" axle pins and remove axle pins.

WARNING: Disconnect the electric brake plug.

4. Raise tongue jack to highest position allowing the trailer frame to touch the ground. Use hydraulic jacks on each side of trailer to raise trailer for removal of axle assembly. Remove axle assembly from beneath trailer. Lower trailer to ground. Level trailer using screw jacks and tongue jack to raise and block trailer as needed. Reinstall aluminum canopy racks onto axle assembly and tighten small T-Handle pins to secure.
6. Remove the chain and binder from the center of each side. Install side levelers (provided with trailer) into the six (6) threaded holes located in the bottom of the frame on each side. Lower sides and use levelers to raise or lower to desired position.
7. Run cables to the switch box through the holes (located near hinge) in aluminum platform of trailer. Connect electric cables from switch box to top ring, bottom ring, motor starter and motor. The cable connectors, male and female, are mated to prevent improper connections. Make certain center pole motor switch (located over gear reducer) is in off position before turning on top ring circuit breaker. Control box contains single pole 30 amp breaker for top ring circuit, three pole 30 amp breaker (for three phase motor) or two pole 30 amp breaker (for single phase motor), and single pole 20 amp breaker for bottom ring.

WAVE THUNDER (TRAILER) - SET-UP PROCEDURE (cont.)

8. Remove vehicles from racks by removing safety pins from the shaft at the bottom of vehicles (these pins are reused when vehicle is installed on ride) and sliding vehicles outwards. Lift front and side vehicle racks to remove from trailer.
9. All rib ends should be in locked and up position. Place umbrella on top of center pole. CAUTION: To avoid soiling umbrella have everyone clean hands before handling. Center umbrella on pole, drop fringed end over the two ribs welded together and connect snaps to bottom of rib ends. Drop other end of umbrella over opposite double welded ribs and snap in place. Let umbrella drape down each side of pole. Unhook chain and spring on each end of ribs, move each rib to proper position. Hook all snaps in rib ends. After all hooks are in place, release spring tension on rib ends, this will secure umbrella top in place.
10. Remove tracks from rear of trailer. Remove the four bolts on the front and rear of trailer floor with 9/16" socket. Place tracks so notches on outside edge are toward rear. Bolt down with 3/8" bolts and tighten securely. Remove pins from hydraulic cylinders and lower toward rear of trailer. This removes cylinders from sweep path.
11. Remove all safety pins from sweep supports. Lift support out of center ring and lower sweep slowly onto track.
12. Place vehicles on ends of sweeps by inserting 1 1/2" shafts into tubing on sweep ends. Tighten 3/8" bolt on tubing to approximately 35 ft. lbs. torque. Place safety pin in lower end of shaft.
13. Connect vehicle light cords to outlets on base center ring.  
CAUTION: Vehicle light cords are to be attached to sweep by use of two (2) clamps located on the sides of the sweep. Use of these clamps will insure that the cords do not interfere with vehicles or platforms while ride is in operation. Make certain male plug locks into female plug lid at center ring.
14. Remove pole pin, jack pole up until holes align (approx. 18"), replace pin and safety pin. WARNING: DO NOT operate ride without pole pin, it can cause severe damage to pole.
15. Install six light fixtures, remove safety pins from fixtures and rotate to bottom of ribs. Slide flat ends into rectangular brackets on pole. Insert safety pin. Connect light fixture cords to outlets on flasher box.

16. Install center cover. Make certain cover is secure by hooking ends of cover springs to sweeps. WARNING: DO NOT operate ride without center cover or with improperly installed center cover, this is not only an attractive cover it is also a SAFETY DEVICE.
  17. Connect the ends of the seven (7) 3/4" X 7' swivel bearing rod assemblies to ride center and vehicles using 3/16" lynch pins (provided). Do not operate ride until these assemblies are installed.
  18. CAUTION: Check platform for loose objects or obstructions which might be in path of vehicles.
  19. Plug in power to switch box. Try each switch separately and check to see that all lights and circuits are working properly.
  20. Ride will not operate unless:
    1. Key is in the "on" position
    2. Footswitch is depressed
    3. Black button is pushed to activate.
- Note: Footswitch must be held down manually for the duration of the ride. This is a SAFETY DEVICE and should never be altered in any way.
21. Turn ride on, check umbrella and each vehicle for proper operation. Leave run at least five minutes to make sure complete ride is operating properly.

NEVER OPERATE RIDE WITHOUT TESTING

BENCH ASSEMBLY

22. Move axle assembly to desired location. Lower the two (2) stabilizer jacks installed under the axle assembly. Lower feet on jacks to level.
23. Remove canopy supports from aluminum racks and place in tubing on top of rack to create canopy frame. Place canopy on frame and attach with velcro straps.

24. Remove the eyed pins and safety pins to lower the benches located over each fender. Remove eyed pins and safety pins to raise backrest to the upright position. Reinstall all pins, installing backrest eyed pins through holes in bench frame to prevent backrest from folding down. Install these eyed pins from inside of bench out so safety pins will be on the outside of the bench. Raise and secure backrest on bench at the rear of the axle assembly using same procedure as side benches.
25. To dismantle ride for moving - reverse set-up instructions.
26. WARNING: Unplug power source before allowing anyone to dismantle ride.
27. WARNING: Before moving ride, check all chains and binders for proper placement and tightness.
28. Check to make sure all blocks, jacks, levelers and bearing rod assemblies have been stored in trailer. Plug in trailer light cord.
29. Hook up towing truck (minimum of at least one (1) ton). Check and secure hitch and safety chains, plus emergency pull away brake. Check all lights. Ride is now ready to tow.

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### WAVE THUNDER - TRAILER MODEL MAINTENANCE INSTRUCTIONS

1. There are four zerk grease fittings on base. These fittings should be serviced three times a year and more often in dusty or sandy conditions.
2. The chain on main drive and umbrella drive should be kept lubricated at all times. CAUTION: In dusty or sandy conditions, periodic cleaning and lubrication is suggested. Keep drive chain adjusted and level. When chain is properly adjusted it will have approximately one inch side play between gear box and large sprocket. Inspect chains every month for wear.
3. Inspect belts for wear and proper adjustment each week.
4. Fluid drive uses hydraulic oil, check level if ride is starting too slow. To adjust ride start, add or subtract oil as needed. CAUTION: Do not run less than one half full.
5. Sweep ends are connected to base with 1" hardened pins. Lubricate each pin after every eight (8) hours of operation with a heavy weight motor oil. WARNING: THESE PINS ARE SPECIALLY HARDENED - DO NOT OPERATE RIDE WITH ANY OTHER TYPE PIN.
6. 6 X 3 hard rubber wheels on sweeps are equipped with zerk grease fittings. These should be greased before each set-up and after every eight (8) hours of operation. Swivel bearings in swiver bearing rods should be greased weekly.
7. Aluminum platforms should be kept clean at all times. Sand and dirt will cause wear. If rides are in salt air conditions, wash daily to avoid corrosion.
8. Keep vehicles clean and waxed. This is the best method for maintaining fiberglass color and gloss. When ride is not in use, cover all vehicles with individual covers, supplied with ride. Sun and bad weather are the worst enemies of fiberglass.

9. Keep all nuts and bolts tight to avoid wear.
10. Paint all scratched surfaces to prevent rust.
11. Check oil in gear boxes, main drive and umbrella drive.
12. Oil electric motors, main drive and umbrella drive, monthly.
13. In salt air conditions, apply a light coat of vaseline to base of all light bulbs before installing to prevent corrosion.
14. Grease wheel bearings on vehicles and trailer once a year.

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FEBRUARY 1, 1997

EFFECTIVE DATE

WAVE THUNDER TRAILER MODELS

## DAILY FIELD INSPECTION LIST

- |   | O.K.  |
|---|-------|
| 1. RIDE LEVELING, JACKS                           | _____ |
| 2. TRACK BOLTS TIGHT IN PLACE                     | _____ |
| 3. SAFETY PINS IN PLACE (INCLUDING UMBRELLA RIBS) | _____ |
| 4. POLE PIN AND SAFETY PIN ON CENTER POLE         | _____ |
| 5. PLATFORMS CLEAN (NO LOOSE OBJECTS)             | _____ |
| 6. OIL LEVELS (FLUID DRIVES, GEAR BOXES)          | _____ |
| 7. GREASE FITTINGS (4)                            | _____ |
| 8. GREASE 6" X 3" VEHICLE WHEELS                  | _____ |
| 9. CHAIN TENSIONS (3)                             | _____ |
| 10. BELT TENSIONS (3)                             | _____ |
| 11. BOLTS TIGHT                                   | _____ |
| 12. 1" X 3" PINS SECURING SWEEPS TO BASE          | _____ |
| 13. LYNCH PINS ON 1" X 3" PINS                    | _____ |
| 14. CANVAS CENTER COVER SPRINGS (2 PER SWEEP)     | _____ |
| 15. RIB ENDS AND SPRINGS IN PLACE (SHOT GUNS)     | _____ |
| 16. ELECTRICAL CONTROLS OPERATING CORRECTLY       | _____ |
| 17. SEAT RESTRAINTS FOR EVERY SEAT                | _____ |
| 18. GENERAL APPEARANCE OF RIDE                    | _____ |
| 17. TEST RUN FOR 5 MINUTES BEFORE DAILY OPERATION | _____ |

**SAFETY AND OPERATION INSTRUCTIONS**  
**FOR UMBRELLA RIDES**

These instructions are for the safety of your employees, your customers and your spectators. They should be carefully followed to insure safety in the operation of this ride.

Make sure ride is set-up in accordance with set-up instructions.

**WARNING:** Ride should be run for at least five minutes before allowing children to load.

All mechanical and electrical parts should be checked to see that ride is operating correctly.

Check switch box for problems with switches and breakers.

**WARNING:** Check all vehicle connections to sweeps; be sure bushings are not worn, set collar set screws are tight, and safety pins are properly installed.

Check wheel bearing grease and adjustment.

All safety belts and locking clips should be inspected.

Ride is now ready to operate.

Make sure main electric switch is off and box cover is closed before allowing children to load. After loading, check to make sure each child is seated and seat belts are on and properly tightened.

Before starting ride, area around ride should be cleared of spectators.

Turn key on and set timer for desired time, depress foot switch and press black button.

When ride has stopped, turn key off and close box cover.

RELEASE SEAT BELTS AND REMOVE CHILDREN.

Repeat safety operations carefully each time to insure accidents do not occur.

**WARNING: FOR YOUR SAFETY AND THE SAFETY OF OTHERS, HAVE ALL OPERATORS THOROUGHLY READ AND UNDERSTAND ALL INSTRUCTIONS BEFORE OPERATING RIDE.**

## TROUBLE SHOOTING

For slow or uneven start: Check fluid drive. (Usually filled to 2 o'clock)

Watch for loose or frayed belts.

Keep chains tight and well greased.

If mini circuits go out on all vehicles: Check points in Time-O-Matic. Periodically they need to be filed or adjusted.

If mini circuits go out on one vehicle:

1. Check individual sockets for blown bulbs or bad sockets.
2. Check both female and male 6 prong plugs for loose wires.
3. Check junction box under car for loose wires.
4. Check wiring in vehicles for breaks or shorts.

If lights in center housing should go out:

1. Check for blown bulb.
2. Check for loose wire inside housing.
3. Check points in flasher (located in housing).

If lights on ribs should go out:

1. Check for blown bulb.
2. Check for loose wire in light.
3. Check male and female 6 prong plug for loose wires.
4. Check points in flasher (located on pole).