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NEW HAMPTON RIDES
7330 WEBER LAKE ROAD
PORTAGE DES SIOUX, MO. 63373
Service: 314-753-2381
314-899-0955
Sales: 800-767-0171
Fax: 314-753-2004

DEPARTMENT OF LABOR
CARNIVAL & AMUSEMENT RIDE
INSPECTION DIVISION

MFG: HAMPTON
NAME: GROUND COMBINATION
Type: Kiddie

MARCH 1, 1991
EFFECTIVE DATE
HAMPTON GROUND MODELS
CLS3273191G

DAILY FIELD INSPECTION LIST

O.K.

1. RIDE LEVELING
2. VEHICLE TIRE PRESSURE(IF EQUIP)
3. PLATFORM CLAMPS(S AND C)
4. TRACK BOLTS TIGHT IN PLACE(IF EQUIP)
(BOAT, SPACE AGE, SINGLE MOTORCYCLE, AND ALL JUMP RIDES)
5. BRASS BUSHINGS IN SWEEP ENDS(ALL RIDES EXCEPT JUMPS)
6. SAFETY PINS IN PLACE(INCLUDING UMBRELLA RIBS)
7. PLATFORMS CLEAN NO LOOSE OBJECTS
8. OIL LEVELS(FLUID DRIVES, GEAR BOXES)
9. GREASE FITTINGS 4(ACCORDING TO MANUAL)
10. GREASE 6"x3" RUBBER WHEELS(ACCORDING TO MANUAL IF EQUIP)
11. SLEEVES ON FLUORESCENT LIGHTING
12. END CAPS ON FLUORESCENT LIGHTING AND SECURED
13. CHAIN TENSIONS 2
14. BELT TENSIONS 3
15. BOLTS TIGHT
16. HITCH BALLS GREASED SATISFACTORY CONDITION
(RIDES MANUFACTURED PRIOR TO JAN. 1, 1988)
17. HITCH PARTS SUPPLIED IN PLACE AND TIGHT
(RIDES MANUFACTURED PRIOR TO JAN. 1, 1988)
18. CANVAS CENTER COVER SPRINGS(2 PER SWEEP)
(EXCEPT TUBS OF FUN, 1 PER SWEEP)
19. RIB ENDS AND SPRINGS IN PLACE(SHOT GUNS)
20. ADEQUATE GROUNDING
21. ELECTRICAL CONTROLS OPERATING ACCORDING TO MANUAL
22. SEAT RESTRAINTS FOR EVERY SEAT
23. STEERING WHEELS IN PLACE
24. GENERAL APPEARANCE OF RIDE
25. TEST RUN UNIT FOR 5 MIN. EVERYDAY BEFORE DAILY OPERATION

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MAINTENANCE INSTRUCTIONS

GROUND COMBINATION

1. There are four zerck grease fittings on base. These fittings should be serviced three times a year and more often in dusty and sandy conditions.
2. The chain on main drive should be kept lubricated at all times. CAUTION: In dusty or sandy conditions periodic cleaning and relubrication is suggested. Keep chain adjusted and level. When chain is properly adjusted it will have approximately one inch side play in between gear box and large sprocket. Inspect chains every month for wear. Replace when worn to avoid wear on sprockets.
3. Chain on umbrella drive should receive maintenance same as main drive chain.
4. Inspect belts for wear and proper adjustment each week. 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. Check sweep ends brass bushings for wear each time ride is set up or at least once a week by simply pushing vehicles back and forth. If there is excessive amounts of motion replace worn bushings. Lubricate bushings by wiping hinge shaft with oil rag. CAUTION: Excess play in bushing can cause vehicles to come off of shafts.
6. Before attaching sweeps to ball wipe balls with oil rag and repeat every eight hours of operation or more if conditions require.
7. Wheel bearings on vehicles should be greased and adjusted twice each season.
8. Apply a few drops of oil to top of rib ends when needed. Do not over oil as it will stain umbrella.
9. 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.
10. 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 that are provided with ride. Sun and bad weather are the worst enemies of fiberglass.
11. Keep all nuts and bolts tight to avoid wear.
12. Paint all scratched surfaces to prevent rust.
13. Check oil in gear boxes. (Main drive and umbrella drive) monthly.

14. Oil electric motors (Main drive and umbrella drive) monthly.
15. In salt air conditions apply a light coat of vaseline to base of all light bulbs before installing to prevent corrosion.
16. Carefull handling, cleanliness and proper maintenance is the key to keeping your Hampton Umbrella Ride beautiful, safe and operational for many years.

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ERECTION PROCEDURE
GROUND COMBINATION RIDE

1. Place base in desired location, preferably a level area. Base should be set in as true a vertical position as possible. Blocking may be necessary to obtain correct alignment and should be done at this time.
2. Attach mud sill, eight (8) required, to base using 3/4" x 2 1/2" bolts. See "D" below. Level mud sills by adjusting levelers, at end of mud sill to suit ground conditions.

WARNING: leveling is of the up-most importance.

A. Description of Mud Sills:

- 3 long mud sills, left hand, one bolt hole.
- 3 long mud sills, left hand, two bolt holes.
- 3 long mud sills, right hand, two bolt holes.
- 1 long mud sill, right hand, two bolt holes.

Attaches to right of motor.

1 short mud sill, left hand, one bolt hole attaches directly behind motor.

B. To determine "head" of mud sill: See Figure (1). Place mud sill so that flange connection on base is on center side of tongue on mudsill.

C. Tighten bolts of any two mud sills next to each other. Leave remaining mud sill bolts loose for positioning of platform as described in step three.

3. Beginning from two previously tightened mudsills, carefully place edge of platform sections, eight (8) sections required on center line of mud sills. (All platforms are numbered and must be placed in order). When all platforms are in position set fiberglass ramps on platforms. Align holes and install bolts, 1/4" x 4" and nuts in ramps. Check to see that all platforms and ramps are aligned. (to check alignment of ramps put on one sweep and rotate around complete track). Now place "inner" and "outer" platform clamps (see figure 2) and tighten clamps securely. Tighten remaining bolts on Mud Sills.

4. Mount center pole to base. This procedure requires a minimum of three persons for easiest assembling. See figure 3. A hammer should be available to drive center pole hinge pin into place.

A. As shown in figure 3 one leaf of hinge is on base, two leaves of hinge are on center pole. Position pole horizontal to base assemble. When hinge is in place insert 3/4" steel hinge pin and install safety pin.

B. Raise center pole to an upright-vertical-position making certain holes in center pole flange line up with holes install at least one of the 3/4" x 2" bolts opposite of hinge, now install remainder of bolts.

5. Install eighteen (18) umbrella ribs. Secure ribs to center pole with thirty six (36) rib pins and thirty

6) (36) safety pins. **WARNING** Be certain all pins and safety pins are properly installed.

A. Make certain outer telescoping ends of umbrella ribs are in up, **LOCKED**, position before proceeding to next step.

6. Install umbrella cover. Center umbrella cover on center pole and line up spring clips, which are sewn to hem of umbrella. Fasten clips to ribs. Unlock telescoping end of ribs to provide tension which will automatically keep cover tight.

7. Connect Control Box electric cables to Top Ring, Bottom Ring, Motor Starter and Motor. The cable connectors, male and female are mated to prevent improper connection. Make certain Center Pole motor switch (located over gear reducer) is in off position before turning on Top Ring circuit breaker (single pole 30 amp) The three or two pole 30 amp circuit breaker protects the Motor. The single pole 20 amp circuit breaker protects the Bottom Rings. The switch, is for the flashing independent lights on the cage. See Figure 4. **WARNING - DO NOT** plug power into main switch box until ride is complete and ready for test.

8. Install six (6) Fluorescent Light Fixtures.

A. Light fixture has a hook on one end and a tongue on the other end. See figure 3.

B. Place the hook end of light fixture over horizontal umbrella rib. Correct rib, for hanging light fixture on will be directly above slotted bracket which is welded to center pole. Slide tongue end of fixture into slotted bracket until light fixture comes to rest on slotted bracket. Connect light fixture cord to outlet on base. **WARNING** Install pin in tongue of light fixture.

9. Position vehicles on platforms.

10. Attach sweeps to vehicles:

A. Remove sweep retaining collar from vehicle hinge shaft - **CAUTION-** The sweep retaining collar is not interchangeable and must be kept with original vehicle.

B. Place sweep on vehicle hinge shaft.

C. Replace sweep retaining collar on vehicle hinge shaft. Line up drilled holes in collar with drilled hole in shaft. Tighten collar set screw and install safety pin to collar.

11. Attach sweeps to center ring balls. Tighten ball clamps securely, then move vehicle in forward and backward motion and retighten ball clamps. Connect vehicle light cords to outlets on base center ring. **CAUTION** Wrap vehicle light cords around sweeps to prevent interference, in any way, with vehicles or platform while ride is in operation. **CAUTION** Make

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certain the male plug locks into female plug lid at center ring. **WARNING:** Before operating ride recheck each sweep end at vehicle and ball end at base.

12. 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 IMPROPERLY INSTALLED CENTER COVER.** This is not only an attractive cover it is also a safety device.
13. **CAUTION:** Check platform for loose objects or obstructions which might be in the path of the motorcycles.
14. Plug power to switch box. Try each switch separately and check to see all lights and circuits are working properly.
15. **WARNING:** Check relay switch making sure that if power is temporarily shut off ride will not restart until relay button is reset. Check by starting ride, then unplugging power, then plug power back in. Ride should not start again until relay button is pushed.
16. Turn on Ride. Check umbrella and each boat for proper operation. Leave run at least five minutes to make sure complete ride is operating properly.
17. For tear down instructions, reverse set up instructions. **WARNING:** Unplug power source before allowing anyone to disassemble ride.

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MAINTENANCE INSTRUCTIONS

GROUND SINGLE MOTORCYCLE

1. There are four zerk grease fittings on base. These fittings should be serviced three times a year and more often in dusty and sandy conditions.
2. The chain on main drive should be kept lubricated at all times. CAUTION: In dusty or sandy conditions periodic cleaning and relubrication is suggested. Keep chain adjusted and level. When chain is properly adjusted it will have approximately one inch side play in between gear box and large sprocket. Inspect chains every month for wear. Replace when worn to avoid wear on sprockets.
3. Chain on umbrella drive should receive maintenance same as main drive chain.
4. Inspect belts for wear and proper adjustment each week. 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. Check sweep ends brass bushings for wear each time ride is set up or at least once a week by simply pushing vehicles back and forth. If there is excessive amount of motion replace worn bushings. Lubricate bushings by wiping hinge shaft with oil rag. CAUTION: Excessive play in bushing can cause vehicles to come off the shafts.
6. Before attaching sweeps to ball wipe balls with oil rag and repeat every eight hours of operation or more if conditions require.
7. The 6 x 3 hard rubber wheels on each vehicle is equipped with zerk fittings and should be greased on set-ups and every eight (8) hours of operation.
8. Apply a few drops of oil to top of rib ends when needed. Do not over oil as it will stain umbrella.
9. 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 that are provided with ride. Sun and bad weather are the worst enemies of fiberglass.
10. Keep all nuts and bolts tight to avoid wear.
11. Paint all scratched surfaces to prevent rust.

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12. Check oil in gear boxes. (Main drive and umbrella drive) monthly.
13. Oil electric motors (Main drive and umbrella drive) monthly.
14. In salt air conditions apply a light coat of vaseline to base of all light bulbs before installing to prevent corrosion.
15. Carefull handling, cleanliness and proper maintenance is the key to keeping your Hampton Umbrella Ride beautiful, safe and operational for many years.

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ERECTION PROCEDURE
GROUND SINGLE MOTORCYCLE

1. Locate base in desired location, preferably a level area. Base should be set in as true a vertical position as possible. Blocking may be necessary to obtain correct alignment and should be done at this time.
2. Attach track supports to base, but do not tighten at this time.
3. Place four (4) sections of track around base and connect but do not tighten at this time. (Each track is numbered at adjoining ends). Now connect track supports ends to track. WARNING: If track is not level use blocking or move location. WARNING: Before installing all vehicles, use one to check track alignment. With everything properly aligned tighten all bolts on track and base.
4. Mount center pole to base. This procedure requires a minimum of three persons for easiest assembling. See figure 3. A hammer should be available to drive center pole hinge pin into place.
 - A. As shown in figure 3 one leaf of hinge is on base, two leaves of hinge are on center pole. Position pole horizontal to base assemble. When hinge is in place insert 3/4" steel pin and install safety pin.
 - B. Raise center pole to an upright, vertical position making certain holes in center pole flange line up with holes in base flange. WARNING: Before letting go of pole install at least one of the 3/4" x 2" bolts opposite of hinge. Now install remainder of bolts.
5. Install eighteen (18) umbrella ribs. Secure ribs to center pole with thirty six (36) rib pins and thirty six (36) safety pins. WARNING: Be certain pins and safety pins are properly installed.
 - A. Make certain outer telescoping ends of umbrella ribs are in up, LOCKED, position before proceeding to next step.
6. Install umbrella cover by centering umbrella cover on center pole and line up spring clips, which are sewn to hem of umbrella. Fasten clips to ribs. Unlock telescoping end of ribs to provide tension which will automatically keep cover tight.
7. Connect control box electric cables to top ring, bottom ring, motor starter and motor. The cable connectors, male and female are mated to prevent improper connection. Make certain center pole motor switch (located over gear reducer) is in off position before turning on top ring circuit breaker (single pole 30 amp). The three or two pole 30 amp circuit breaker

protects the motor. The single pole 20 amp circuit breaker protects the bottom rings. The switch is for the flashing incandescent light cage. See figure 4. **WARNING: DO NOT** plug power into main switch box until ride is complete and ready to test.

8. Install six (6) fluorescent light fixtures.

A. Light fixture has a hook on one end and a tongue on the other end. See figure 3.

B. Place the hook end of light fixture over horizontal umbrella rib. Correct rib, for hanging light fixture on will be directly above slotted bracket which is welded to center pole. Slide tongue end of fixture into slotted bracket until light fixture comes to rest on slotted bracket. Connect light fixture cord to outlet on base. **WARNING: Install pin in tongue of light fixture.**

9. Attach sweeps to vehicles.

A. Remove sweep retaining collars from vehicles hinge shaft - **CAUTION** - The sweep retaining collar is not interchangeable and must be kept with original vehicles.

B. Place sweep on vehicle hinge shaft.

C. Replace sweep retaining collar on vehicle. Hinge shaft: line up drilled holes in Collar with drilled holes in shaft. Tighten collar set screw and install safety pin to collar.

10. ATTACH SWEEPS TO CENTER RING BALLS. Tighten ball clamps securely, then move vehicle in a forward and backward motion and retighten ball clamps. Connect vehicle light cords to outlets on base center ring - **CAUTION** - Wrap vehicle light cords around sweeps to prevent interference, in any way, with vehicles or platform while ride is in operation. **CAUTION** - Make certain the male plug locks into female plug lid at center ring. **WARNING** - Before operating ride recheck each sweep end at vehicle and ball end at base.

11. Install Center Cover. Make certain cover is secure by hooking end of cover spring to sweeps. **WARNING** - DO NOT operate ride without center cover or improperly installed center cover. This is not only an attractive cover it is also a **SAFETY DEVICE**.

12. **CAUTION** - Check track for loose objects or obstructions which might be in path of vehicles.

13. Plug in power to switch box. Try each switch separately and check to see that all light and circuits are working properly. **WARNING** - Check relay switch making sure that if power is temporarily shut off ride will not restart until relay button is reset. Check by starting ride, then unplug power, then plug power back in. Ride should not start again until relay button is

pushed.

14. Turn on ride, check umbrella and each vehicle for proper operation. Leave run at least five minutes to make sure complete ride is operating properly.
15. For tear down instructions reverse set up instructions. **WARNING** - Unplug power source before allowing anyone to disassemble ride.

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MAINTENANCE INSTRUCTIONS

GROUND MOTORCYCLE JUMP

1. There are four zerk grease fittings on base. These fittings should be serviced three times a year and more often in dusty and sandy conditions.
2. The chain on main drive should be kept lubricated at all times. CAUTION: In dusty or sandy conditions periodic cleaning and relubrication is suggested. Keep chain adjusted and level. When chain is properly adjusted it will have approximately one inch side play in between gear box and large sprocket. Inspect chains every month for wear. Replace when worn to avoid wear on sprockets.
3. Chain on umbrella drive should receive maintenance same as main drive chain.
4. Inspect belts for wear and proper adjustment each week. 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 set up and or every eight hours in operation with a heavy weight motor oil. The bearings on the base ring where sweeps attach should be greased at the same time. WARNING: THESE PINS ARE SPECIALLY HARDENED AND DO NOT OPERATE RIDE WITH ANY OTHER TYPE. Fittings on base ring are aviation type fittings and special needle adapter is supplied with ride for greasing.
6. Shaft on end of sweep that motorcycle slides on should be wiped with oily rag before each installation.
7. Wheels on sweeps (3 x 6 hard rubber) should be greased every eight hours of operation.
8. Apply a few drops of oil to top of rib ends when needed. Do not over oil as it will stain umbrella.
9. 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.
10. 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 that are provided with ride. Sun and bad weather are the worst enemies of fiberglass.
11. Keep all nuts and bolts tight to avoid wear.
12. Paint all scratched surfaces to prevent rust.

13. Check oil in gear boxes. (Main drive and umbrella drive) monthly.
14. Oil electric motors (Main drive and umbrella drive) monthly.
15. In salt air conditions apply a light coat of vaseline to base of all light bulbs before installing to prevent corrosion.
16. Carefull handling, cleanliness and proper maintenance is the key to keeping your Hampton Umbrella Ride beautiful, safe and operational for many years.

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ERECTION PROCEDURE
GROUND MOTORCYCLE JUMP RIDE

1. Place base in desired location, preferably a level area. Base should be set in as true a verticle position as possible. Blocking may be necessary to obtain correct alignment and should be done at this time.
2. Attach mud sill, eight (8) required, to base using 3/4" x 2 1/2" bolts. See "C" below. Level mud sills by adjusting levelers, at end of mud sill to suit ground conditions.

WARNING: leveling is of the up-most importance.

A. Description of Mud Sills:

3 long mud sill, left hand, one bolt hole.

3 long mud sills, left hand, two bolt holes.

1 long mud sill, right hand, two bolt holes.

1 long mud sill, right hand, two bolt holes.

Attaches to right of motor.

1 short mud sill, left hand, one bolt hole attaches directly behind motor.

B. To determine "hand" of mud sill: See Figure (1). Place mud sill so that flange connection on base is on center side of tongue on Mud Sill.

C. Tighten bolts of any two mud sills next to each other. Leave remaining mud sill bolts loose for positioning of platform as described in step three.

3. Beginning from two previously tightened mud sills, carefully place edge of platform sections, eight (8) sections required on center line of mud sills. (All platforms are numbered and must be placed in order). When all platforms are in position set fiberglass ramps on platforms. Align holes and install bolts, 1/4" x 4" and nuts in ramps. Check to see that all platforms and ramps are aligned. (to check alignment of ramps put on one sweep and rotate around complete track). Now place "inner" and "outer" platform clamps (see figure 2) and tighten clamps securely. Tighten remaining bolts on Mud Sills.
4. Mount center pole to base. This procedure requires a minimum of three persons for easiest assembling. See figure 3. A hammer should be available to drive center pole hinge pin into place.
 - A. As shown in figure 3 one leaf of hinge is on base, two leaves of hinge are on center pole. Position pole horizontal to base assemble. When hinge is in place insert 3/4" steel hinge pin and install safety pin.
 - B. Raise center pole to an upright-vertical-position making certain holes in center pole flange line up with holes install at least one of the 3/4" x 2" bolts opposite of hinge, now install remainder of bolts.
5. Install eighteen (18) umbrella ribs. Secure ribs to

center pole with thirty six (36) rib pins and thirty six (36) safety pins. **WARNING** Be certain all pins and safety pins are properly installed.

- A. Make certain outer telescoping ends of umbrella ribs are in up, LOCKED, position before proceeding to next step.
6. Install umbrella cover. Center umbrella cover on center pole and line up spring clips, which are sewn to hem of umbrella. Fasten clips to ribs. Unlock telescoping end of ribs to provide tension which will automatically keep cover tight.
 7. Connect Control Box electric cables to Top Ring, Bottom Ring, Motor Starter and Motor. The cable connectors, male and female are mated to prevent improper connection. Make certain Center Pole motor switch (located over gear reducer) is in off position before turning on Top Ring circuit breaker (single pole 30 amp). The three or two pole 30 amp circuit breaker protects the Motor. The single pole 20 amp circuit breaker protects the Bottom Rings. The switch, is for the flashing incandescent lights on the cage. See Figure 4. **WARNING** - DO NOT plug power into main switch box until ride is complete and ready for test.
 8. Install six (6) Fluorescent Light Fixtures.
 - A. Light fixture has a hook on one end and a tongue on the other end. See figure 3.
 - B. Place the hook end of light fixture over horizontal umbrella rib. Correct rib, for hanging light fixture on will be directly above slotted bracket which is welded to center pole. Slide tongue end of fixture into slotted bracket until light fixture comes to rest on slotted bracket. Connect light fixture cord to outlet on base. **WARNING** Install pin in tongue of light fixture.
 9. Connect sweeps to base and pin securely with 1" hardened pins and safety with 3/16" clevis pin. (All sweeps are numbered to base).
 10. Slide motorcycle on sweep shaft until seated against sweep, tighten 1/2", lock bolt on connecting arm under motorcycle. (Each motorcycle is numbered to sweep). **CAUTION** Before tightening bolt on connecting arm check to see that electric lead cord is clear. Install large safety pin at end of sweep shaft. Connect electric lead cord to base.
 11. 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 IMPROPERLY INSTALLED CENTER COVER.** This is not only an attractive cover it is also a safety device.
 12. **CAUTION:** Check platform for loose objects or obstructions which might be in the path of the

motorcycles.

13. Plug power to switch box. Try each switch separately and check to see all lights and circuits are working properly.
14. **WARNING:** Check relay switch making sure that if power is temporarily shut off ride will not restart until relay button is reset. Check by starting ride, then unplugging power, then plug power back in. Ride should not start again until relay button is pushed.
15. Turn on Ride. Check umbrella and each boat for proper operation. Leave run at least five minutes to make sure complete ride is operating properly.
16. For tear down instructions reverse set up instructions. **WARNING:** Unplug power source before allowing anyone to disassemble ride.

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MAINTENANCE INSTRUCTIONS

GROUND BOAT

1. There are four zerk grease fittings on base. These fittings should be serviced three times a year and more often in dusty and sandy conditions.
2. The chain on main drive should be kept lubricated at all times. CAUTION: In dusty or sandy conditions periodic cleaning and relubrication is suggested. Keep chain adjusted and level. When chain is properly adjusted it will have approximately one inch side play in between gear box and large sprocket. Inspect chains every month for wear. Replace when worn to avoid wear on sprockets.
3. Chain on umbrella drive should receive maintenance same as main drive chain.
4. Inspect belts for wear and proper adjustment each week. 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. Check sweep ends brass bushings for wear each time ride is set up or at least once a week by simply pushing vehicles back and forth. If there is excessive amount of motion replace worn bushings. Lubricate bushings by wiping hinge shaft with oil rag. CAUTION: Excessive play in bushing can cause vehicles to come off the shafts.
6. Before attaching sweeps to ball wipe balls with oil rag and repeat every eight hours of operation or more if conditions require.
7. The 6 x 3 hard rubber wheels on each vehicle is equipped with zerk fittings and should be greased on set-ups and every eight (8) hours of operation.
8. Apply a few drops of oil to top of rib ends when needed. Do not over oil as it will stain umbrella.
9. 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 that are provided with ride. Sun and bad weather are the worst enemies of fiberglass.
10. Keep all nuts and bolts tight to avoid wear.
11. Paint all scratched surfaces to prevent rust.
12. Check oil in gear boxes. (Main drive and umbrella drive) monthly.
13. Oil electric motors (Main drive and umbrella drive)

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monthly.

14. In salt air conditions apply a light coat of vaseline to base of all light bulbs before installing to prevent corrosion.
15. Carefull handling, cleanliness and proper maintenance is the key to keeping your Hampton Umbrella Ride beautiful, safe and operational for many years.

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ERECTION PROCEDURE
GROUND BOAT RIDE

1. Locate base in desired location, preferably a level area. Base should be set in as true a vertical position as possible. Blocking may be necessary to obtain correct alignment and should be done at this time.
2. Attach track supports to base, but do not tighten at this time.
3. Place four (4) sections of track around base and connect but do not tighten at this time. (Each track is numbered at adjoining ends). Now connect track supports ends to track. **WARNING:** If track is not level use blocking or move location. **WARNING:** Before installing all vehicles, use one to check track alignment. With everything properly aligned tighten all bolts on track and base.
4. Mount center pole to base. This procedure requires a minimum of three persons for easiest assembling. See figure 3. A hammer should be available to drive center pole hinge pin into place.
 - A. As shown in figure 3 one leaf of hinge is on base, two leaves of hinge are on center pole. Position pole horizontal to base assembly. When hinge is in place insert 3/4" steel pin and install safety pin.
 - B. Raise center pole to an upright, vertical position making certain holes in center pole flange line up with holes in base flange. **WARNING:** Before letting go of pole install at least one of the 3/4" x 2" bolts opposite of hinge. Now install remainder of bolts.
5. Install eighteen (18) umbrella ribs. Secure ribs to center pole with thirty six (36) rib pins and thirty six (36) safety pins. **WARNING:** Be certain pins and safety pins are properly installed.
 - A. Make certain outer telescoping ends of umbrella ribs are in up, LOCKED, position before proceeding to next step.
6. Install umbrella cover by centering umbrella cover on center pole and line up spring clips, which are sewn to hem of umbrella. Fasten clips to ribs. Unlock telescoping end of ribs to provide tension which will automatically keep cover tight.
7. Connect control box electric cables to top ring, bottom ring, motor starter and motor. The cable connectors, male and female are mated to prevent improper connection. Make certain center pole motor switch (located over gear reducer) is in off position before turning on top ring circuit breaker (single pole 30 amp). The three or two pole 30 amp circuit breaker

protects the motor. The single pole 20 amp circuit breaker protects the bottom rings. The switch is for the flashing incandescent light cage. See figure 4. **WARNING: DO NOT plug power into main switch box until ride is complete and ready to test.**

8. Install six (6) fluorescent light fixtures.
 - A. Light fixture has a hook on one end and a tongue on the other end. See figure 3.
 - B. Place the hook end of light fixture over horizontal umbrella rib. Correct rib, for hanging light fixture on will be directly above slotted bracket which is welded to center pole. Slide tongue end of fixture into slotted bracket until light fixture comes to rest on slotted bracket. Connect light fixture cord to outlet on base. **WARNING: Install pin in tongue of light fixture.**
9. Attach sweeps to vehicles.
 - A. Remove sweep retaining collars from vehicles hinge shaft - **CAUTION** - The sweep retaining collar is not interchangeable and must be kept with original vehicles.
 - B. Place sweep on vehicle hinge shaft.
 - C. Replace sweep retaining collar on vehicle. Hinge shaft: line up drilled holes in Collar with drilled holes in shaft. Tighten collar set screw and install safety pin to collar.
10. ATTACH SWEEPS TO CENTER RING BALLS. Tighten ball clamps securely, then move vehicle in a forward and backward motion and retighten ball clamps. Connect vehicle light cords to outlets on base center ring - **CAUTION** - Wrap vehicle light cords around sweeps to prevent interference, in any way, with vehicles or platform while ride is in operation. **CAUTION** - Make certain the male plug locks into female plug lid at center ring. **WARNING** - Before operating ride recheck each sweep end at vehicle and ball end at base.
11. Install Center Cover. Make certain cover is secure by hooking end of cover spring to sweeps. **WARNING** - DO NOT operate ride without center cover or improperly installed center cover. This is not only an attractive cover it is also a **SAFETY DEVICE**.
12. **CAUTION** - Check track for loose objects or obstructions which might be in path of vehicles.
13. Plug in power to switch box. Try each switch separately and check to see that all light and circuits are working properly. **WARNING** - Check relay switch making sure that if power is temporarily shut off ride will not restart until relay button is reset. Check by starting ride, then unplug power, then plug power back in. Ride should not start again until relay button is

pushed.

14. Turn on ride, check umbrella and each vehicle for proper operation. Leave run at least five minutes to make sure complete ride is operating properly.
15. For tear down instructions reverse set up instructions. **WARNING** - Unplug power source before allowing anyone to disassemble ride.

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MAINTENANCE INSTRUCTIONS
GROUND TUBS RIDE

1. There are four zerck 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 should be kept lubricated at all times. CAUTION: In dusty or sandy conditions periodic cleaning and lubrication is suggested. Keep chain adjusted and level. When chain is properly adjusted it will have approximately one inch side play inbetween gear box and large sprocket. Inspect chains every month for wear. Replace when worn to avoid wear on sprockets.
3. Chain on umbrella drive should receive maintenance same as main drive chain.
4. Inspect belts for wear and proper adjustments each week. 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. Apply a few drops of oil to top of rib ends when needed. DO NOT over oil as it will stain umbrella.
6. Check and adjust brakes on tubs when spinning of empty tub will not stop within four (4) revolutions. (adjust by using adjusting bolts on under side of tubs).
7. Keep all nuts and bolts tight to avoid wear.
8. Paint all scratched surfaces to prevent rust.
9. Check oil in gear boxes (main drive & umbrella drive).
10. Oil electric motors (main drive & umbrella drive).
11. In salt air conditions apply a light coat of vaseline to base of all light bulbs before installing to prevent corrosion.
12. Carefull handling, cleanliness and proper maintenance is the key to keeping your Hampton Ride beautiful, safe and operational for many years.

ERECTION PROCEDURE
GROUND TUBS RIDE

1. Place base on location. Insert legs and tighten leg bolts as shown in drawing #1.
2. Mount center pole to base. This procedure requires a minimum of three persons for easiest assembling. See drawing #2. A hammer should be available to drive center pole hinge pin into place.
 - A. As shown in drawing 2 one leaf of hinge is on base. Two leaves of hinge are on center pole. Position pole horizontal to base assemble. When hinge is in place insert 3/4" steel hinge pin and install safety pin.
 - B. Raise center pole to an upright, vertical position making sure holes in center pole flange line up with holes in base flange. WARNING: Before letting go of pole install at least one of the 3/4 x 2" bolts opposite of hinge. Now install remainder of bolts.
3. Install eighteen (18) umbrella ribs. Secure ribs to center pole with thirty six (36) rib pins and thirty six (36) safety pins. WARNING: Be certain all pins and safety pins are properly installed.
 - A. Make certain outer telescoping ends of umbrella ribs are in up, LOCKED, position before proceeding to next step.
4. Install umbrella cover. Center umbrella cover on center pole and line up spring clips, which are sewn to hem of umbrella. Fasten clips to ribs. Unlock telescoping end of ribs to provide tension which will automatically keep cover tight.
5. Connect control box electric cables to top ring, bottom ring, motor starter and motor. The cable connectors, male & 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 (single pole 30 amp). The three or two pole 30 amp circuit breaker protects the motor. The single pole 20 amp circuit breaker protects the bottom ring. The switch, for flashing incandescent light cage. WARNING: DO NOT plug power into main switch box until ride is complete and ready to test.
6. Attach sweeps to base.
 - A. Insert sweep end (drawing #3) on large ring of base (drawing #4).
 - B. When placing sweep on base, raise outer end enough to slide sweep under locking ring. Lower sweep and slide out to stop. (refer drawing #4)

all six (6) bolts evenly).

7. Install Tubs on sweeps.

- A. Loosen the four (4) 5/8" bolts on the end of the sweeps.
- B. Set tub shaft into the split hole clamp at end of sweep. (drawing #4)
- C. Turn Tub until brake lock into position on sweep end.
- D. Tighten all four (4) bolts on sweep end clamp. (drawing #5) CAUTION: Tighten all four (4) bolts evenly on all six (6) sweep ends.

8. 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 improperly installed center cover. This is not only an attractive cover it is also a safety device.

9. Plug in power to switch box. Try each switch separately and check to see all lights and circuits are working properly.

10. WARNING: Check relay switch making sure that if power is temporarily shut off ride will not restart until relay button is reset. Check by starting ride, then unplug power, then plug power back in. Ride should not start again until relay button is pushed.

11. Turn on ride. Check umbrella and each tub for proper operation. Leave ride run at least five minutes to make sure complete ride is operating properly.

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ERECTION PROCEDURE
GROUND ROCK, SPIN & ROLL RIDE

1. Place the base in desired location, preferably a level area. The base should be set in as true a vertical position as possible. Blocking may be necessary to obtain correct alignment and should be done at this time.
2. Attach track supports to base, but do not tighten at this time.
3. Place four (4) sections of track around base and connect, but do not tighten at this time. (Each track is numbered at adjoining ends) Now connect the track supports ends to track. **WARNING:** If track is not level use blocking or move location. **WARNING:** Before installing all tubs, use one to check track alignment. With everything properly aligned tighten all bolts on track and base.
4. Mount center pole to base. This procedure requires a minimum of three persons for easiest assembling. See Figure 3. A hammer should be available to drive Center Pole Hinge Pin into place.
 - A. As shown in Figure 3, one leaf of hinge is on base, Two leaves of hinge are on center pole. Position pole horizontal to base assemble. When hinge is in place insert 3/4" steel hinge pin and install safety pin.
 - B. Raise Center Pole to an upright-Vertical-position making certain holes in Center Pole flange line up with holes in base flange. **WARNING:** Before letting go of the pole install at least one of the 3/4" x 2" bolts opposite of hinge. Now install remainder of bolts.
5. Install eighteen (18) Umbrella Ribs. Secure ribs to center pole with thirty six (36) rib pins and thirty six (36) safety pins. **WARNING:** Be certain all pins and safety pins are properly installed.
 - A. Make certain outer telescoping ends of umbrella ribs are in up, LOCKED, position before proceeding to next step.
6. Install Umbrella Cover. Center umbrella cover on center pole and line up spring clips, which are sewn to hem of umbrella. Fasten clips to ribs. Unlock telescoping end of ribs to provide tension which will automatically keep cover tight.
7. Connect Control Box electric cables to Top Ring, Bottom Ring, Motor Starter and Motor. The cable connectors, male and female are mated to prevent improper connection. Make certain Center Pole motor switch (located over gear reducer) is in off position before turning on Top Ring circuit breaker (single pole 30 amp). The three or two pole 30 amp circuit breaker protects the Motor. The single pole 20 amp circuit breaker protects the Bottom Rings. The switch, is for the flashing incandescent lights on the cage. See

Figure 4. **WARNING - DO NOT** plug power into main switch box until ride is complete and ready for test.

8. Install six (6) Fluorescent Light Fixtures.

A. Light fixture has a hook on one end and a tongue on the other end. See figure 3.

B. Place the hook end of light fixture over horizontal umbrella rib. Correct rib, for hanging light fixture on will be directly above slotted bracket which is welded to center pole. Slide tongue end of fixture into slotted bracket until light fixture comes to rest on slotted bracket. Connect light fixture cord to outlet on base. **WARNING** Install pin in tongue of light fixture.

9. Attach sweeps to tub cradles:

A. Remove sweep retaining collar from boat hinge shaft -**Caution**-The sweep retaining collar is not interchangeable and must be kept with original tub.

B. Place sweeps on tub cradle and install retaining collar on cradle shaft. Align hole and install pin and safety.

10. Attach sweeps to center ring balls. Tighten ball clamps securely. With all sweeps and cradles attached to base set tubs on cradle. **WARNING** Make sure tub shaft and brake assembly fit into notches on cradle. Tighten four nuts on cradle to secure tub shaft. **WARNING** After tubs are all on, move tubs in a forward and backward motion and retighten ball clamps on base.

11. Hook up lead cable for electric brakes. **CAUTION:** Wrap cable around sweep to take out slack in cable.

12. 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 IMPROPERLY INSTALLED CENTER COVER.** This is not only an attractive cover it is also a safety device.

13. Check track for obstructions and loose objects which may be in the path of the tubs.

14. Plug power to switch box. Try each switch separately and check to see all lights and circuits are working properly.

15. **WARNING-** Check relay switch making sure that if power is temporarily shut off ride will not restart until relay button is reset. Check by starting ride, then unplugging power, then plug power back in. Ride should not start again until relay button is pushed.

16. Turn on Ride. Check umbrella and each tub for proper operation. Leave run at least five minutes to make sure complete ride is operating properly.

MAINTENANCE INSTRUCTIONS
GROUND ROCK SPIN AND ROLL RIDE

1. There are four zerk grease fittings on the base. These fittings should be serviced three times a year and more often in dusty or sandy conditions.
2. The chain on the main drive should be kept lubricated at all times. CAUTION-In dusty or sandy conditions periodic cleaning and relubrication is suggested. Keep 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. Replace when worn to avoid wear on sprockets.
3. Chain on umbrella drive should receive maintenance same as main drive chain.
4. Inspect belts for wear and proper adjustments each week. Fluid drive uses hydraulic oil, check level if ride is starting too slow. To adjust raise start, add or subtract oil as needed. CAUTION - Excess play in bushings can cause vehicles to come off of the shafts.
5. Check the sweep and brass bushings for wear each time ride is set up or at least once a week by simply pushing vehicles back and forth. If there is an excessive amount of motion then replace worn bushing. Lubricate bushings by wiping hinge shaft with oil rag. CAUTION - Excess play in bushing can cause vehicles to come off shafts.
6. Before attaching sweeps to ball wipe balls with oil rag and repeat every eight hours of operation or more if conditions require.
7. The 6 x 3 hard rubber wheels on each vehicle is equipped with a zerk fitting and should be greased on set-ups and every eight (8) hours of operation.
8. Apply a few drops of oil to top rib ends when needed. DO NOT over oil as it will stain the umbrella.
9. 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 that are provided with ride. Sun and bad weather are the worst enemy of fiberglass.
10. Check and adjust brakes on tube when spinning of empty tub will not stop within four (4) revolutions. (Adjust by using adjusting belts on under side of tub).
11. Keep all nuts and bolts tight to avoid wear.
12. Paint all scratched surfaces to prevent rust.
13. Check oil in gear boxes (Main drive & umbrella drive) Monthly.

14. Oil electric motors (Main drive & Umbrella drive) Monthly.
15. In salt air conditions apply a light coat of vaseline to base of all light bulbs before installing to prevent corrosion.
16. Carefull handling, cleanliness and proper maintenance is the key to keeping your Hampton Ride beautiful, safe and operational for many years.

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MAINTENANCE INSTRUCTIONS

GROUND HORSE JUMP

1. There are four zerck grease fittings on base. These fittings should be serviced three times a year and more often in dusty and sandy conditions.
2. The chain on main drive should be kept lubricated at all times. CAUTION: In dusty or sandy conditions periodic cleaning and relubrication is suggested. Keep chain adjusted and level. When chain is properly adjusted it will have approximately one inch side play in between gear box and large sprocket. Inspect chains every month for wear. Replace when worn to avoid wear on sprockets.
3. Chain on umbrella drive should receive maintenance same as main drive chain.
4. Inspect belts for wear and proper adjustment each week. 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 set up and or every eight hours in operation with a heavy weight motor oil. The bearings on the base ring where sweeps attach should be greased at the same time. WARNING: THESE PINS ARE SPECIALLY HARDENED AND DO NOT OPERATE RIDE WITH ANY OTHER TYPE. Fittings on base ring are aviation type fittings and special needle adapter is supplied with ride for greasing.
6. Wheels on sweeps (3 x 6 hard rubber) should be greased every eight hours of operation.
7. Apply a few drops of oil to top of rib ends when needed. Do not over oil as it will stain umbrella.
8. 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.
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) monthly.
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. Carefull handling, cleanliness and proper maintenance is the key to keeping your Hampton Umbrella Ride beautiful, safe and operational for many years.

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ERECTION PROCEDURE
GROUND HORSE JUMP RIDE

1. Place base in desired location, preferably a level area. Base should be set in as true a vertical position as possible. Blocking may be necessary to obtain correct alignment and should be done at this time.
2. Attach mud sill, eight (8) required, to base using 3/4" x 2 1/2" bolts. See "C" below. Level mud sills by adjusting levelers, at end of mud sill to suit ground conditions.

WARNING: Leveling is of the up-most importance.

A. Description of Mud Sills:

- 3 long mud sill, left hand, one bolt hole.
- 3 long mud sills, left hand, two bolt holes.
- 1 long mud sill, right hand, two bolt holes.
- 1 long mud sill, right hand, two bolt holes.

Attaches to right of motor.

1 short mud sill, left hand, one bolt hole attaches directly behind motor.

B. To determine "hand" of mud sill: See Figur (1). Place mud sill so that flange connection on base is on center side of tongue on Mud Sill.

C. Tighten bolts of any two mud sills next to each other. Leave remaining mud sill bolts loose for positioning of platform as described in step three.

3. Beginning from two previously tightened Mud Sills, carefully place edge of platform sections, eight (8) sections required on center line of mud sills. (All platforms are numbered and must be placed in order). When all platforms are in position set fiberglass ramps on platforms. Align holes and install bolts, 1/4" x 4" and nuts in ramps. Check to see that all platforms and ramps are aligned. (to check alignment of ramps put on one sweep and rotate around complete track). Now place "inner" and "outer" platform clamps (see figure 2) and tighten clamps securely. Tighten remaining bolts on Mud Sills.
4. Mount center pole to base. This procedure requires a minimum of three persons for easiest assembling. See figure 3. A hammer should be available to drive center pole hinge pin into place.
 - A. As shown in figure 3 one leaf of hinge is on base, two leaves of hinge are on center pole. Position pole horizontal to base assemble. When hinge is in place insert 3/4" steel hinge pin and install safety pin.
 - B. Raise center pole to an upright-vertical-position making certain holes in center pole flange line up with holes install at least one of the 3/4" x 2" bolts opposite of hinge, now install remainder of bolts.
5. Install eighteen (18) umbrella ribs. Secure ribs to center pole with thirty six (36) rib pins and thirty

six (36) safety pins. **WARNING** Be certain all pins and safety pins are properly installed.

A. Make certain outer telescoping ends of umbrella ribs are in up, **LOCKED**, position before proceeding to next step.

6. Install umbrella cover. Center umbrella cover on center pole and line up spring clips, which are sewn to hem of umbrella. Fasten clips to ribs. Unlock telescoping end of ribs to provide tension which will automatically keep cover tight.
7. Connect Control Box electric cables to Top Ring, Bottom Ring, Motor Starter and Motor. The cable connectors, male and female are mated to prevent improper connection. Make certain Center Pole motor switch (located over gear reducer) is in off position before turning on Top Ring circuit breaker (single pole 30 amp). The three or two pole 30 amp circuit breaker protects the Motor. The single pole 20 amp circuit breaker protects the Bottom Rings. The switch, is for the flashing incandescent lights on the cage. See Figure 4. **WARNING** - DO NOT plug power into main switch box until ride is complete and ready for test.
8. Install six (6) Fluorescent Light Fixtures.
 - A. Light fixture has a hook on one end and a tongue on the other end. See figure 3.
 - B. Place the hook end of light fixture over horizontal umbrella rib. Correct rib, for hanging light fixture on will be directly above slotted bracket which is welded to center pole. Slide tongue end of fixture into slotted bracket until light fixture comes to rest on slotted bracket. Connect light fixture cord to outlet on base. **WARNING** Install pin in tongue of light fixture.
9. Connect sweeps to base and pin securely with 1" hardened pins and safety with 3/16" clevis pin. (All sweeps are numbered to base).
10. Place horses on sweeps by setting inside end of horse platform on lower welded pin, lift outside edge of horse platform until 3/4" pin hole aligns with top hole in sweep. Insert pin and safety with 3/16" clevis pin. **WARNING:** Double check all pins and safety pins on horses and sweeps.
11. 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 IMPROPERLY INSTALLED CENTER COVER.** This is not only an attractive cover it is also a safety device.
12. **CAUTION:** Check platform for loose objects or obstructions which might be in the path of the motorcycles.

13. Plug power to switch box. Try each switch separately and check to see all lights and circuits are working properly.
14. **WARNING:** Check relay switch making sure that if power is temporarily shut off ride will not restart until relay button is reset. Check by starting ride, then unplugging power, then plug power back in. Ride should not start again until relay button is pushed.
15. Turn on Ride. Check umbrella and each boat for proper operation. Leave run at least five minutes to make sure complete ride is operating properly.
16. For tear down instructions reverse set up instructions. **WARNING:** Unplug power source before allowing anyone to disassemble ride.

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