

SLIDE BULLETIN NO.1 APPLIES TO ALL FUN SLIDES

DATE: DECEMBER 4, 1995 SUBJECT: RAILINGS ON STEPS

It has been brought to our attention that a small child has been able to slip through the railings on the stairs of the Fun Slide. Therefore it is required that all owners of Fun Slides perform the modifications described in this bulletin.

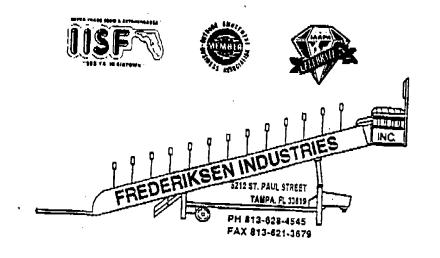
The modification consists of welding 1 inch square tubing into the hand railings, the entire length of the steps leading to the top of the slide, so that no opening is greater than 4 inches. Also on the structure of the slide on the left side going up the stairs, there should be 3/16 x 1 inch flat bars 4 inches apart the entire length of the steps.

NOTE; All work must be performed by competent, qualified welder, capable of welding aluminum.

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BUREAU OF FAIR RIDES INSPECTION



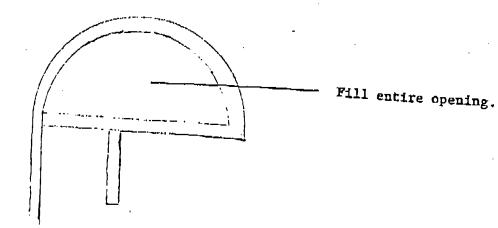
SLIDE BULLETIN NO.2 APPLIES TO ALL FUN SLIDES

DATE: DECEMBER 4, 1995 SUBJECT: LANE DIVIDERS AT TOP OF SLIDE.

It has been brought to our attention of an incident involving the divider bars at the entrance to the slide lanes. Therefore it is required that all owners of Fun Slides perform the following modifications described in this bulletin.

The modification consists of welding a solid piece of aluminum into the center of the divider.

Note; all work must be performed by a competent qualified welder, capable of welding aluminum.



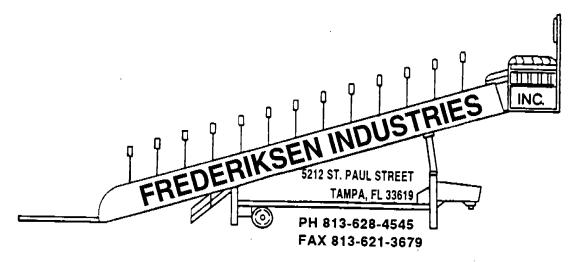
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OPERATIONS, MAINTENANCE AND INSTRUCTIONS MANUAL

FOR THE
KIDDIE FUN SLIDE

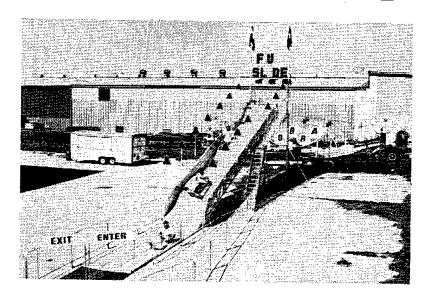


TABLE OF CONTENTS

I	INTRODUCTION	PAGi 1
Н	HYDRAULIC SYSTEM	
	ELECTRIC HEATER SYSTEM	
	SIGN CONTROL MODULE	2
s	ET-UP OPERATION3-4	
	PERATIONAL PROCEDURES AND CHECKLIST	
	PERATION OF THE DRY SLIDE	
11	LLUSTRATIONS:	
	FIGURE 1-SKETCH OF SLIDE ASSEMBLED IN OPERATING POSITION	. 6
	FIGURE 2-SKETCH OF SLIDE RACKED FOR TRANSPORTING	. 7
	FIGURE 3-SKETCH OF FRONT OF SLIDE ASSEMBLY	. 8
)	FIGURE 4-SKETCH OF ROLL-OUT SECTION MATING WITH FRONT SECTION	. 9
	FIGURE 5-SKETCH OF GROUND SECTIONS AND PROPER PLACEMENT OF BLOCKING	10
	FIGURE 6-SKETCH OF FENCING LAYOUT	

INTRODUCTION

The amusement attraction known as the KIDDIE FUN SLIDE, consists mainly of a trailer-mounted aluminum framework which supports a three-lane 60 foot long fiberglass sliding area. The top section is raised into position by a hydraulic cylinder and supported by two stanchions with turnbuckles. The center section is then rolled back and hoisted into position using two winches permanently affixed to the front of the trailer, then it is bolted into place. The bottom section is then fitted together and pinned to the roll-out section.

HYDRAULIC SYSTEM

The hydraulic system consists of a model #5w034-3 (2.35 gpm) pump and a 6K045F 1hp electric motor from Dayton. The control valve is a Gresen model 300 2-way valve. The fluid tank is a Dayton 5-gallon model with a spin-on filter assembly.

The cylinder is a single stage type with a chrome-plated ram to resist rust.

The recommended oil to use is a mineral-based hydraulic oil. The recommended change interval is every 25 hours or once yearly, whichever comes first.

ELECTRIC HEATER SYSTEM

This slide is equipped with a heating system that is built in to the fiberglass. This system is virtually maintenance-free. It is designed for use only in high humidity type situations. It will not control moisture from rain, etc.

SIGN CONTROL MODULE

This slide is equipped with a 3-channel chaser-flasher - computer sign control module from Rocox. The chase and flash speeds are easily set by individual controls.

SET UP OPERATION

- NOTE: The trailer <u>must be blocked at all four corners and</u>

 leveled from side to side and front to rear before

 beginning set up operations!
- CAUTION: You must remove the two 1" pins from brackets at top of 4" square uprights at rear of trailer <u>before</u>

 raising front section. Failure to do so will result in serious damage to the ride.
- Set up procedure: First, install outriggers into brackets at sides of 4" uprights at rear of trailer using 1 1/4" by 6 1/2" pins and R-keys. Install 1" turnbuckles from landing gear legs to outriggers. Then block underneath the outriggers and tighten turnbuckles. (Fig. 3). While front section is down, remove pins from sign and clamps from lights. Fold sign up and pin into position using two 3/4" by 6" pins and R-keys at bottom of sign legs.

 Next, fold lights up and pin into position using 3/8"

 L-shaped pins and R-keys inserted into light brackets.

Roll-out section:

Remove two(2) 3/4" bolts from front and two(2) 3/4" bolts from rear of roll-out section. Roll back 3-4 feet only-- then install the adjustable dollies into brackets at each side of rear of section using 3/8" bolts and nuts to secure in place.

NOTE: To facilitate ease of rolling on ground it is advisable to place two pieces of plywood 2 ft. by 8 ft. approx.

14 to 22 feet behind trailer in line with dolly wheels.

Set up operation (cont.)

Roll section back and down to ground until approx. one foot at front of section is left on trailer.

NOTE: At this time it is easier to fold the lights up on this section, using the same procedure as the top section. Chock wheels if necessary to prevent rolling. Next, raise hydraulic cylinder up and pin into bracket in top section with 7/8" Grade 9 bolt, nut, and key. After hooking up electrical power, turn main circuit breaker on and the breaker for the hydraulic pump. Raise slide approx. 1 foot by use of the control valve lever and pin stanchions to brackets under the canopy using 1 1/4" by 3 1/4" pins and R-keys. Then, fasten the 3/4" turnbuckles to the top of the stanchions using two 5/8" by 3" galvanized pins and R-keys. Next, raise the slide the rest of the way up and pin the stanchions into place using the other 1 1/4" by 3 1/4" pins and R-keys.

NOTE:Do not let stanchions drag on trailer deck when raising.

Cross the two 3/4" turnbuckles and pin to stanchions using two 5/8" by 3" galvanized pins and R-keys.

Tighten the turnbuckles evenly to take slack out of stanchions- just good and snug- DO NOT OVERTIGHTEN!!

See (fig. 3).

Fasten winch cables to eyebolts on lower front bar of roll-out section. Hoist up and move back as needed to meet the front section squarely----THIS IS A MUST----

NOTE: Use the two dollies to adjust up or down as needed to make the two frameworks meet squarely. (fig. 4)

(cont.)

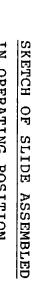
Set up operation (cont.)

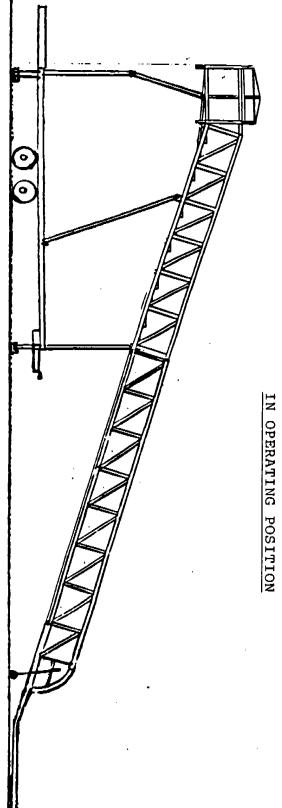
The lip of the fiberglass on the roll-out section must be underneath the fiberglass on the front section. Now install the two(2) 7/8" by 2-1/2" bolts and nuts into the mating brackets facing inward from the two frameworks. Tighten bolts securely.

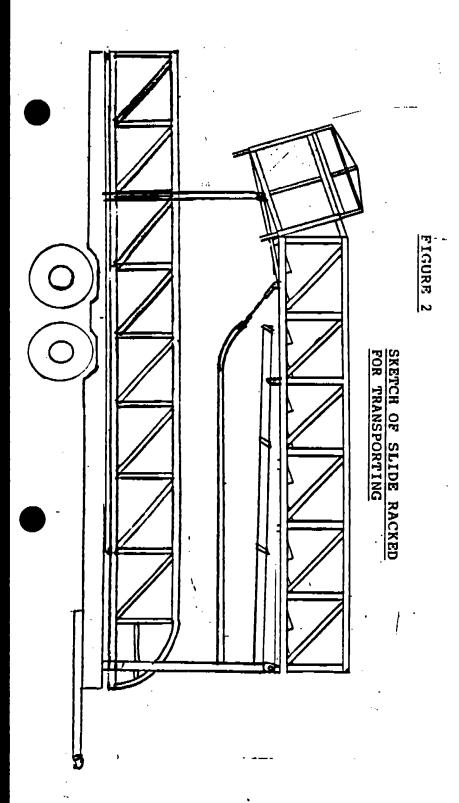
Bottom (ground) section:

Line the ground section up to the roll-out section and pin together with two (2) 3/4" by 5" pins and R-keys. The fiberglass lip of the ground section must be underneath that of the roll-out section.

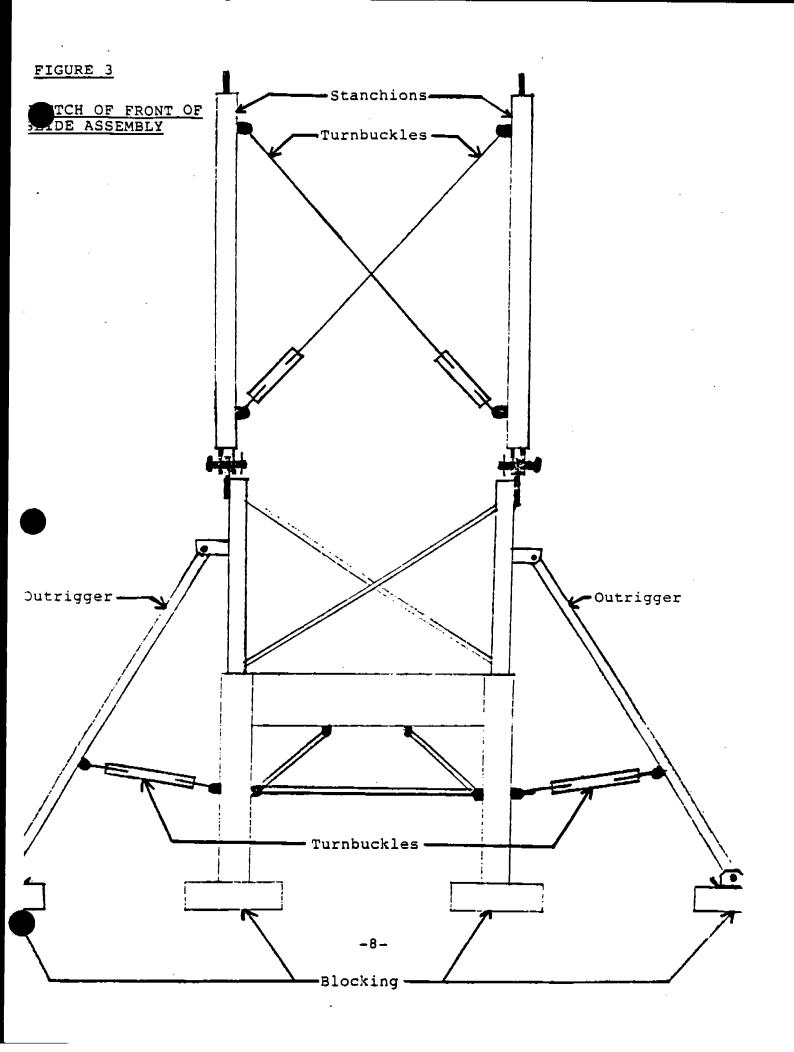
- <u>CAUTION</u>: Blocking <u>must</u> be placed across under the crossbraces where these two sections meet as a means of support.
- Slide ladder: The slide ladder is fitted to the slide stairway by use of a 7/8" by 17-1/2" pin and R-key. The ladder will have to be angled out away from the roll-out section somewhat for the pin holes to line up.
- Canopy: Raise the canopy up and pin into position using the proper L-shaped 1/2" pins and R-keys. Install safety bars around the canopy and pin together using the proper L-shaped 1/2" and 3/8" pins and R-keys.

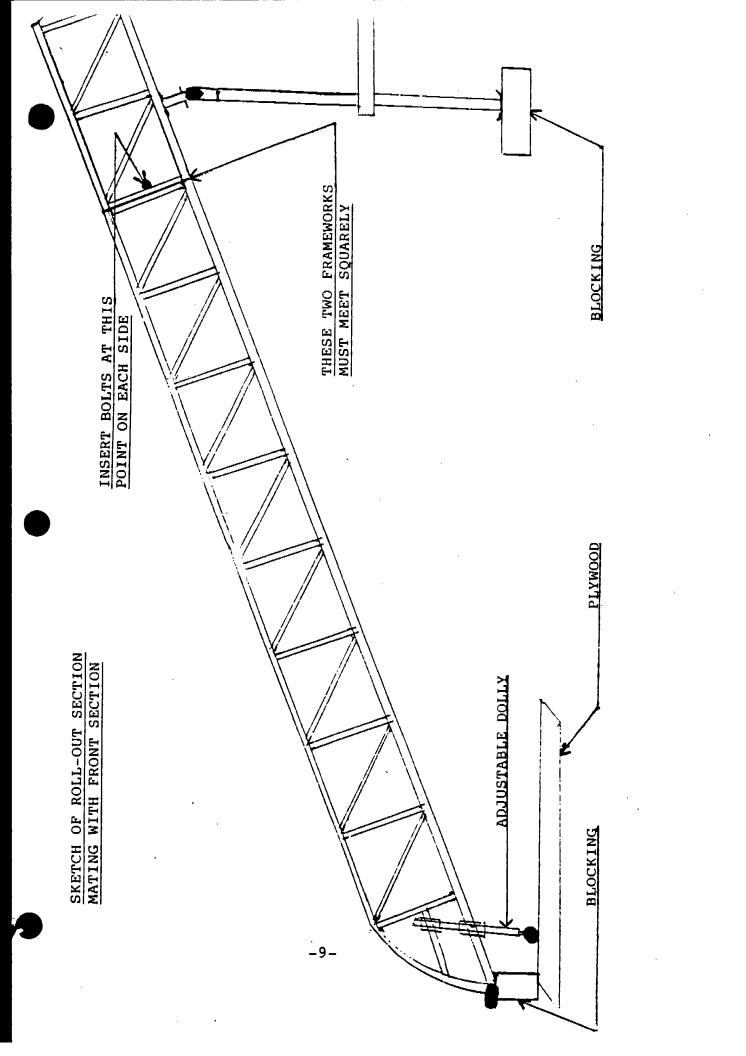


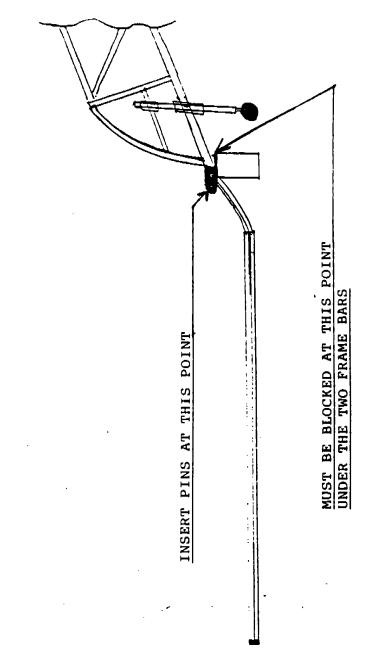




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SKETCH OF GROUND SECTION AND PROPER PLACEMENT OF BLOCKING

OPERATIONAL PROCEDURES AND CHECKLIST

escription of the area needed to set up the slide:

- The surface on which the ride is set up must be hard enough so that no settling of the Slide will occur.
- The surface on which the ride is set up must be level so that the Slide can be properly leveled.
- 3. When the Slide is in the operating position, people on the Slide should not be able to reach out and touch trees, buildings, light or telephone poles, signs or power lines, etc.

Checklist before operating Slide:

- 1. Pins and R-keys......Daily for condition and proper placement.
- 2. Steps and handrails......Daily for condition and pins and R-keys
- 4. Circuit breakers......Monthly

Slide care:

 Use a product such as Johnson's Pledge to clean the surface of the Slide.

CAUTION: DO NOT use wax or polish to make the Slide
faster!!

Wash occasionally with a very mild soap.

NOTE: Do not use any type of abrasive.

Starting gates:

This Slide is constructed so that the starting gates are left in their proper position and permanently pinned and keyed, even during transportation.

OPERATION OF THE DRY SLIDE

- ten (10) or more persons are utilizing Slide or in Slide area. The following criteria shall apply while the Slide is in operation:
 - (a) One person on top of the Slide to:
 - Regulate the flow of sliders so that there are no collisions at the bottom of the Slide.
 - Make sure all riders are sitting and positioned properly before sliding.
 - NOTE: All sliding shall be done in an upright, sitting position, with feet in the mat pocket, and hands holding up the sides of the sliding mat.
 - CAUTION: Absolutely no sliding shall be done backwards, or in a prone or standing position.
 - 3) All children must be 42" tall to ride alone.
 - 4) Very small children have a tendency to "fishtail" and shall slide with an adult.
 - (b) One person at the bottom of the Slide.
 - 1) Regulate the traffic up the steps.
 - 2) Make sure people use the handrails as they climb the steps
 - 3) Assist people in getting up after completing their ride.
 - 4) Collect the sliding mats.

SKETCH OF FENCING LAYOUT

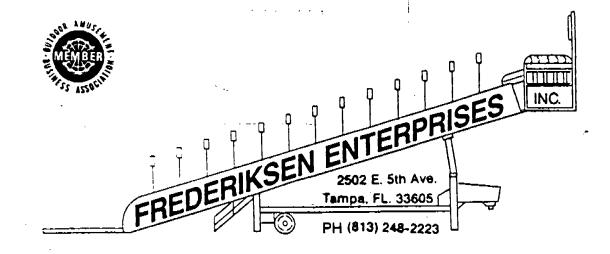
ENTRANCE GATE

EXIT

SUGGESTED FENCE LAYOUT PLAN

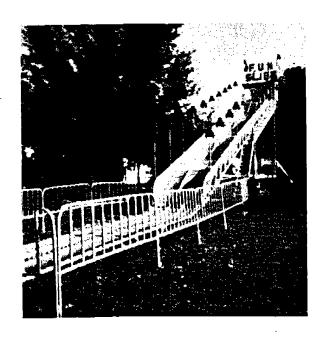
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4 ft.



OPERATIONS, MAINTENANCE AND INSTRUCTIONS MANUAL

FOR THE
SUPER FUN SLIDE



INTRODUCTION

The amusement attraction known as the SUPER FUN SLIDE, (figure 1), consists mainly of a trailer-mounted aluminum framework which supports a three-lane 90 foot long fiberglas sliding area. The top section is raised into position by a hydraulic cylinder and supported by two stanchions with turnbuckles. The center section is then rolled back and hoisted into position using two winches permanently affixed to the rear of the trailer, then bolted in place. The bottom two sections are then pinned together and fitted to the roll-out section.

SET UP OPERATION

NOTE: The trailer <u>must be blocked at all four corners and</u>

<u>leveled from side to side and front to rear</u> before

beginning set up operations!

CAUTION: You <u>must remove</u> the $1\frac{1}{4}$ " pins from brackets at top of 4" square uprights at front of trailer <u>before</u> raising front section. Failure to do so will result in <u>serious damage</u> to the ride.

Set up procedure: First, install outriggers into brackets at sides of 4" uprights at front of trailer using $1\frac{1}{4}$ " by $6\frac{1}{2}$ " pins and R-keys. Install 1" turnbuckles from landing gear legs to outriggers. Then block underneath the outriggers and tighten turnbuckles.(Fig. 3) While front section is down, remove pins from sign and clamps from lights. Fold sign up and pin into position using two(2) 3/4" by $5\frac{1}{2}$ " pins and R-keys at bottom of sign legs. Next, fold lights up and pin into position using L-shaped 3/8" pins and R-keys inserted in light brackets.

Next, remove pins from rear bracket holding stanchions.

NOTE: do not allow stanchions to drag on trailer while raising.

After hooking up electrical power, turn main circuit breaker on and the circuit breaker for the hydraulic pump. Raise slide into position by use of the pump control valve and pin stanchions to bracket at top of 4" uprights at front of trailer, using $1\frac{1}{4}$ " by $3\frac{1}{4}$ " pins and R-keys.

(cont.)

Set up operation (cont.)

The lip of the fiberglas on the roll-out section must be underneath the fiberglas on the front section. Now install the two (2) 3/4" by $2\frac{1}{2}$ " bolts, lockwashers, and nuts into the mating brackets facing inward from the two frameworks. Tighten bolts securely.

Bottom (ground) sections:

Line the longer (curved) section up to the roll-out section and pin together with two (2) 3/4" by 3" pins and R-keys. The fiberglas lip of the ground section must be underneath that of the roll-out section.

<u>CAUTION</u>: Blocking <u>must</u> be placed across under the crossbraces where these two sections meet as a means of support.

The last section just fits together with the previous section by use of two square pockets where they meet.

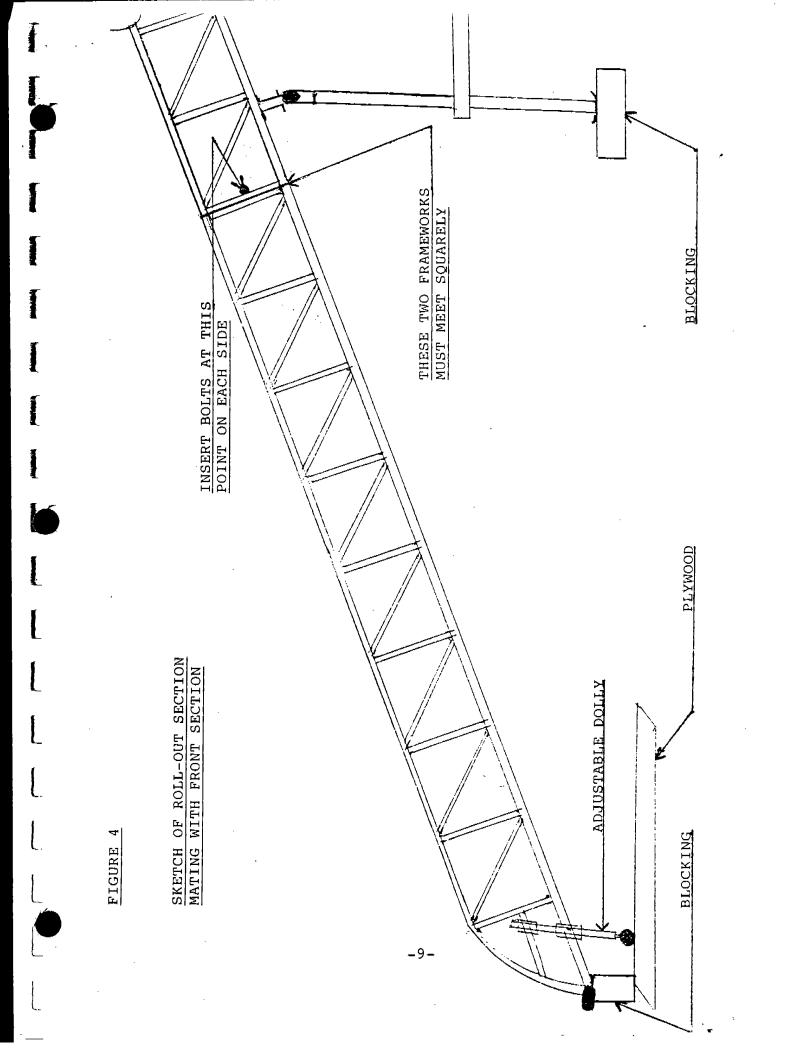
NOTE: It might be necessary to use some small blocking at this point to level these sections if they do not meet just right.

Slide steps: The slide steps are fitted to the slide stairway by use of a 7/8" by $17\frac{1}{2}$ " pin and R-key. The steps will need to be angled out away from the roll-out section somewhat to make the pin holes line up.

Canopy: Raise the canopy up and pin into position using the proper L-shaped 3/8" pins and R-keys. Install safety bars around the canopy and pin together using the proper L-shaped 3/8" pins and R-keys.

SKETCH OF SLIDE RACKED FOR TRANSPORTING -7-

FIGURE 2



OPERATIONAL PROCEDURES AND CHECK LIST

Description of the area needed to set up the Slide:

- 1. The surface on which the ride is set up must be hard enough so that no settling of the Slide will occur.
- 2. The surface on which the ride is set up must be level so that the Slide can be properly leveled.
- 3. When the Slide is in the operating position, people on the Slide should not be able to reach out and touch trees, buildings, light or telephone poles, signs or power lines.

Check list before operating Slide:

- 3. Plugs, electrical boxes and wire......Weekly
- 4. Circuit breakers......Monthly

Slide care:

1. Use a product such as Johnson's Pledge to clean the surface of the Slide.

CAUTION: DO NOT use wax or polish to make the Slide faster!!

2. Wash occasionally with a very mild soap.

NOTE: Do not use any type of abrasive.

Starting gates:

This Slide is constructed so that the starting gates are left in their proper position and permanently pinned and keyed at all times, even during transportation.

SKETCH OF FENCING LAYOUT

FIGURE 6

SUGGESTED FENCE LAYOUT PLAN

OPERATION AND MAINTENANCE MANUAL

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TABLE OF CONTENTS

	n	PAGE
Specifications	: A =	. 2
Power Supply Regulrements	***	2
System Override and Emergency Procedures		3
Control Console Diagram		6
Operating Instructions - Manual Mode		7
Operating Instructions - Automatic Mode		9
Luprication Drawing		11
Luprication Specifications		12
Luprication Maintenance Schedule		13
Space Diagram		1.4
Hydraulic Information		15

SYSTEM OVERRIDE AND EMERGENCY PROCEDURES

- T. Electrical or hydraulic power is interrupted while boom is in up position.
 - A. Wheel is not tilted.

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when electrical or hydraulic power is interrupted, holding valves located on the boom lift cylinders will close trapping hydraulic fluid in the lift cylinders and maintaining the boom at that location. To lower boom without hydraulic or electrical power locate the lift cylinder valve override handle located inboard of cooling ran on the rear of the hydraulic fluid storage reservoir. The override handle is about 5° long with a rounded end. Rotate the handle 90 degrees. This action will allow hydraulic fluid to slowly exit the lift cylinders and allow the boom to gently return to the boom rest pad. CAUTION: Alter lowering boom return override handle to closed position. With override handle in open position boom cannot be raised.

B. Wheel is tiltea.

When electrical or hydraulic power is interrupted, or when RPM's drop below a preset level holding valves on the boom lift cylinders will be bypassed hydraulically, allowing fluid from the base of the lift cylinders to fill the rod end of the drag link cylinder. This in turn brings the wheel to the level position.

To lower boom locate the lift cylinder valve override handle inboard of the cooling fan. Rotate the handle 90 degrees. This will allow fluid to exit the lift cylinders and will slowly lower boom.

CAUTION: RETURN OVERRIDE HANDLE TO CLOSED POSITION. BOOM CANNOT BE RAISED WITH HANDLE IN OPEN POSITION.

II. Ride occupant creates a situation requiring the ride motion to be stopped or occupant be removed immediately

Using the operator's console, switch to manual mode. Level the wheel with the tilt control. Once wheel is level, turn rotation switch ordwhen wheel is no longer rotating, lower boom with joystich.

III. Ride operator sees an electrical problem and needs to stop the ride and interrupt electrical power to hydraulic system.

Fush down mushroom head button labeled EMERGENCY STOP. Breaker for

IX. If all the above procedures fail and the wheel stops or slows below FO REM while in the Tilt mode, passengers will be held safely in their cages by the safety belts fastened across the front of the cell.

The operator should push the emergency STOP mushroom switch and go quickly to boom override valve and lower the boom. *Safety cables will level the wheel allowing passengers to be safely removed.

OPERATING INSTRUCTIONS

1. MANUAL OPERATION OF RIDE

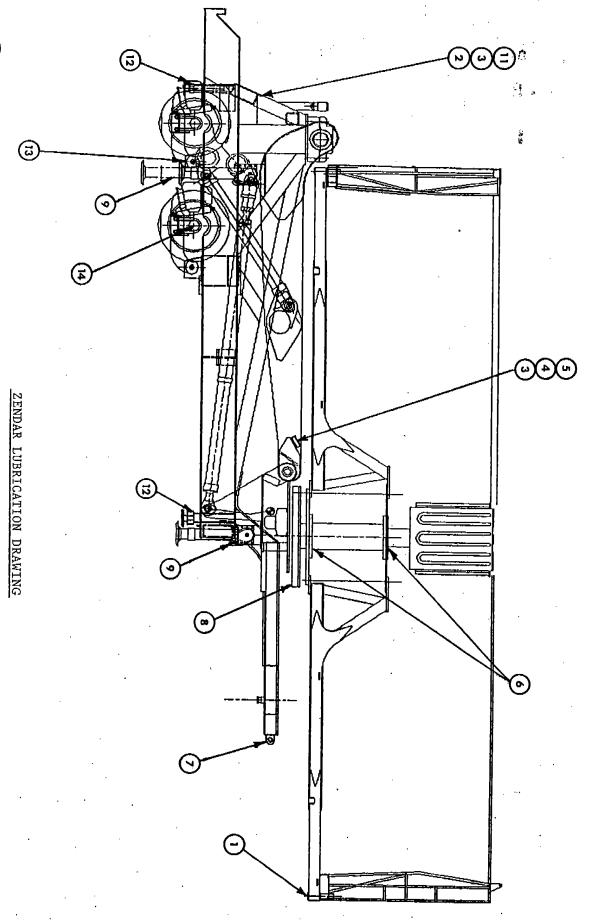
PLACE MODE SELECTION SWITCH IN MAN (manual) POSITION:

- I. To start motor and hydraulic system push button labeled HYDRAULIC SYSTEM ON. Allow system to warm up until the temperature of the hydraulic system reaches 50 degrees. Hydraulic fluid will warm up before temperature gauge indicates 50 degrees because the gauge is exposed to the open air. Hydraulic pump will quiet down when fluid is warm enough.
- 2. Prace switch tabeled ROTATION in the <u>FWD</u> (forward) position. Rotation will not occur at this time. (When rotation does begin, the <u>FWD</u> position will cause the wheel to rotate in a counter clockwise direction.)
- 3. Move SOOM LIFT poystick to the \overline{UP} position. Boom will rise until it reaches its maximum height and then will stop by itself. Release poystick after upward movement of the boom stops.
- 4. Wheel rotation will start at this time. When thit speed is achieved, the red diode labeled NO TILT will go out, and the green diode labeled \overline{OK} TILT will illuminate.
- o. Operator must observe all passengers and verify that all are in cages with safety pelts fastened. Operator must not tilt the wheel until observing that all passengers are in cages with safety belts fastened.
- b. When the <u>OK TibT</u> diode illuminates, move the TILT joystick to the TILT position. This action will cause the wheel to tilt. When the tilt position is achieved, the tilt action will stop by itself. <u>NOTE:</u> The wheel will not tilt until adequate wheel speed is achieved.
- Wheel the movement will stop by itself when the wheel is level. To wheel this movement will stop by itself when the wheel is level.
- 8. To lower the boom move the BOOM poystick to the DOWN position. As soon as downward movement starts, the wheel will dease rotating. Os-

PLACE MODE SELECTION SWITCH IN AUTO POSITION

7

- 1. To start motor and hydraulic system push button labeled HYDRAULIC SYSTEM ON. Allow system to warm up until the temperature of the hydraulic system reaches 50 degrees. Hydraulic fluid will warm up before temperature gauge indicates 50 degrees because the gauge is exposed to the open air. Hydraulic pump will guiet down when fluid is warm enough.
- 2. Place switch tabeled ROTATION in the OFF position.
- 3. Move BOOM joystick to the $\overline{\text{UP}}$ position. Boom will rise until it reaches its maximum height and then will stop by itself. Release joy stick after upward movement of the boom stops.
- 4. Wheel rotation will start at this time. When tilt speed is achieved, the red diode labeled NO TiLT will go out, and the green diode labeled OK TILT will illuminate.
- passengers and verify that all are in cages with safety belts fastened. Operator must not this the wheel until conserving that all passengers are in cages with safety belts tastened.
- 6. When the OR TILT diode illuminates, move the TILT joystick to the TILT position. This action will cause the wheel to tilt. When the tlit position is achieved, the tilt action will stop by itself. <u>NOTE</u>: The wheel will not tilt until adequate wheel speed is achieved.
- 7. After a pre-set number of seconds, the wheel will automatically return to the level position and stop rotating.
- o. To lower the boom move the BOOM joystick to the $\underline{\text{DOWN}}$ position. Use the BRAKE ON switch to stop the wheel rotation so that the exit and entry goors are above the exit and entry platforms.
- 3. When the boom reaches the boom rest. downward movement will stop by litself. Release the joy stick.



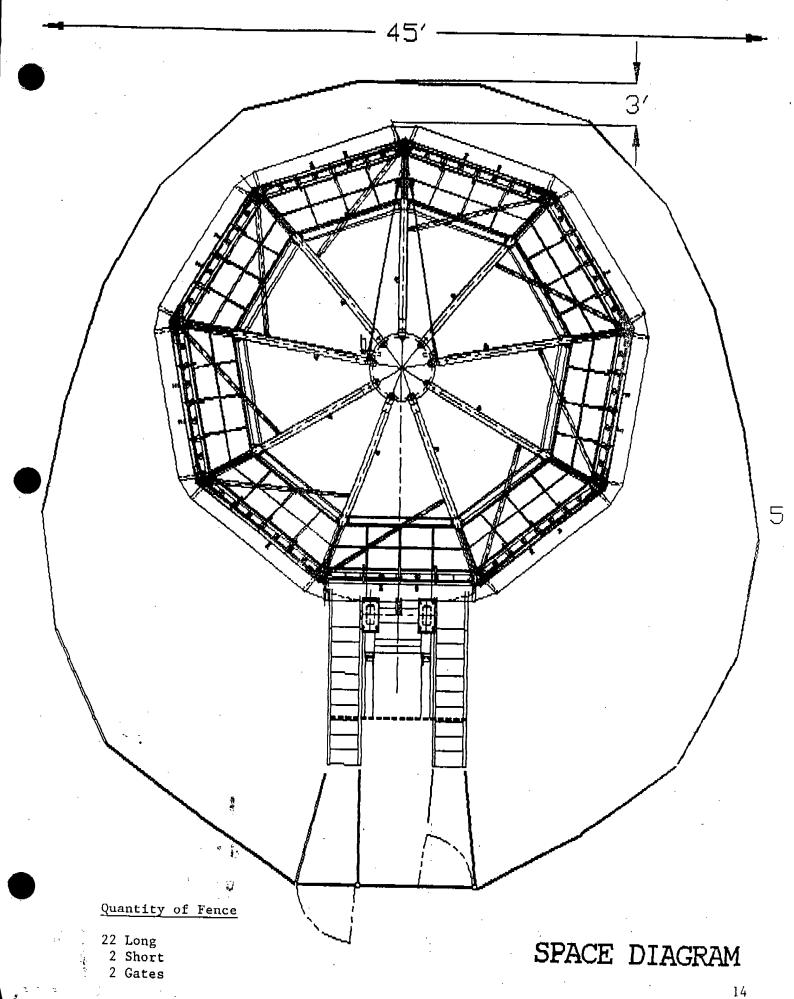
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LUERICATION MAINTENANCE SCHEDULE

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·,	Soom pillow block bearings	Grease	Daily**			
:	uing arm ends	Grease	Daily *			
ů.	Upper cylinder pin	Grease	Daily *			
5	Boom platierm pivot pin	Grease	Daily *			
6	Upper & lower center hub bearings	Grease	Weekly.			
7	Front storage boom bearings	Grease	Monthly			
8 	ARID drive gear	Pinion Grease	Monthly			
ā	manding gear (3 each)	Grease	. Monthly			
	uttigger sorew jack	Grease	Monthly			
<u>. </u>	Lower dylinder pin	Grease	Daily *			
7.2	Front & rear sorew jacks	Grease	Monthly			
13	Rear brake activators (8)	Gr eas e	- Monthit			
<u></u>	AXIQS .	Gear Oil	Check Dally			
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on Manifold Block



KECOWMENDED FORKICYNIE

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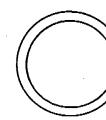
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10, it the doors do not line up with the loading platforms, select the doors to notation needed by placing the ROTATION switch in either the FORMAKD or REVERSE position. Depress the JOG button. The wheel will set the button is depressed. Releasing the JOG button will set the brake and stop wheel rotation.

10. If the doors do not line up with the loading platforms, select the clothing platforms, select the clothing of notation heeded by beyoness the Workly of REVERSE position. Depress the Word button. The pressing to take and stop wheel rotation. Releasing the JOS Future.

when the boom reaches the boom rest, downward movement will stop by itself. Release the joy stick.

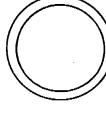
the BRAKE ON switch to stop the wheel rotation so that the exit and entry platforms.

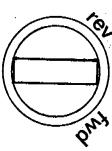


HYDRAULIC

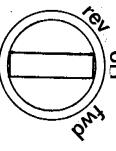
SYSTEM

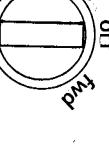
ROTATION

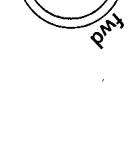




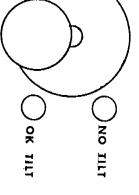
start



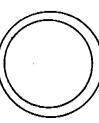


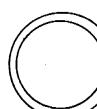


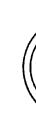
TILT



EMERGENCY





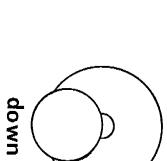


PUSH TO STOP

LEVEL

BUKO

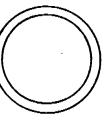
Zendar



BOOM

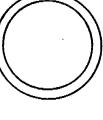
q

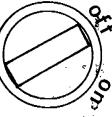
stop



DOC

BRAKE





ROTATE SELECTED BRAKE ON AND OPERAJE WITH

the tree wheel mode and return to the level position. VIII. It wheel RPM's drop below 20 RPM, the wheel will automatically go into

•∃

wheel to return to a level position. the boom and will cause the link cylinder to collapse and allow the

tighten. These safety cables will prevent the sweeps from hitting boom lowers, capies between the spindle base and the boom will rapidly to the boom override nandle and lower the boom. As the It the wheel does not respond to the Thit/Level joystick, move

Trit/Level Joystick in the LEVEL position. ipeu bisce pues

Push the smergency STOP mushroom switch;

on irpetuā.

All. Operator observes hydraulic fluid gushing from a proken nydraulic line

THOTATSOC NMOC Sur ut switch to place the wheel in iree wheel and bold the noom down loy stick with the joy stick. The operator must push the emergency STOP mushroom position with the emergency re-level system explained in 1.B. above or

This type of failure will prevent wheel from being returned to the level

. In Aydraulid lines to tink arm cylinder are ruptured.

IN THE RIK UNTIL VALVE HAS BEEN CLOSED.

CAUTION: AFTER OPENING LIFT CYLINDER OVERRIDE VALVE, BOOM WILL NOT STAY

ror several seconds. EMERGENCY STOP mushrcom switch, the wheel will immediately free wheel It power is interrupted from loss of power at source or by pushing

tocated inboard or the dooling tan.

rucerrupted lower boom by opening life cylinder valve override handle sting toward bottom of operators console. If electrical power has been It electrical power has not been interrupted lower boom by moving joy

Arter stopping wheel ride operator chooses to unload ride. -1 Λ T€ 3

reset to its original position. the EMERGENCY STOP button must be pulled up then the breaker must be automatically level. To operate ride after using emergency stop putton until it stops. As the wheel slows to below 20 rpm, the wheel will nydraulic system is tripped allowing wneel to rotate in a freewheel mode

ELECIPICATIONS

48 ruches	PASSENGER MINIMUM HEIGHT REQUIREMENT
22.5 rpm max. 20.0 rpm min.	GEETS ECIF
199Ì 82	TRAILER LENGTH
jeet by 40 feet	SPACS REQUIRED
jeet √S	THEIGH OPERATING HEIGHT
12v suw buibs 34 adults or children with compined weight of 5800 lbs.	YTIOAGAO
moros. Frooding beacon 110v 500w quartz Troodingnes 110v 500w quartz	
Mini Turbo lights 60v 4w bulbs Console spotlights 12v 35w bulbs Outer skin spotlights 24v 35w bulbs Outer skin spotlights 24v 35w bulbs Panel lights	гіснілис
Optional: Single cable that contains power leads & ground. Type W insulation.	
Standard: Five individual wires with type W insulation. Power wires are 02 size & ground is 00.	ELECTRICAL LEAD WIRES
220 voit, 3 phase wath ground	VOLTAGE
eqma 222	WARD TMA MUMIXAM
SC hp, 1750 rpm elegtric motor	EOMERED EX
мя св	TOTAL POWER REQUIRED

A CAUTION: Pailure to supply an adequate ground to the frame can cause serious electric shock. Proper grounding prevents the parts of the Zendar from being energized with high voltage in the event of a short circuit. Another means of grounding is with a ground rod. Check local regulations for ground rod requirements and specifications.

INTRODUCTION

This manual is intended to be used as a general guide for the operation and maintenance of your ride. Dartron Industries, Inc. is constantly attiving to improve performances selfictency and sately; therefore, certain improvements may not be reflected in the text of the manual. Any major revisions or additions to the manual will be sent to you tree of charge. Specially endineered features purchased for individual rides may not be incorporated in this manual.

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