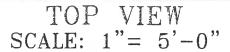


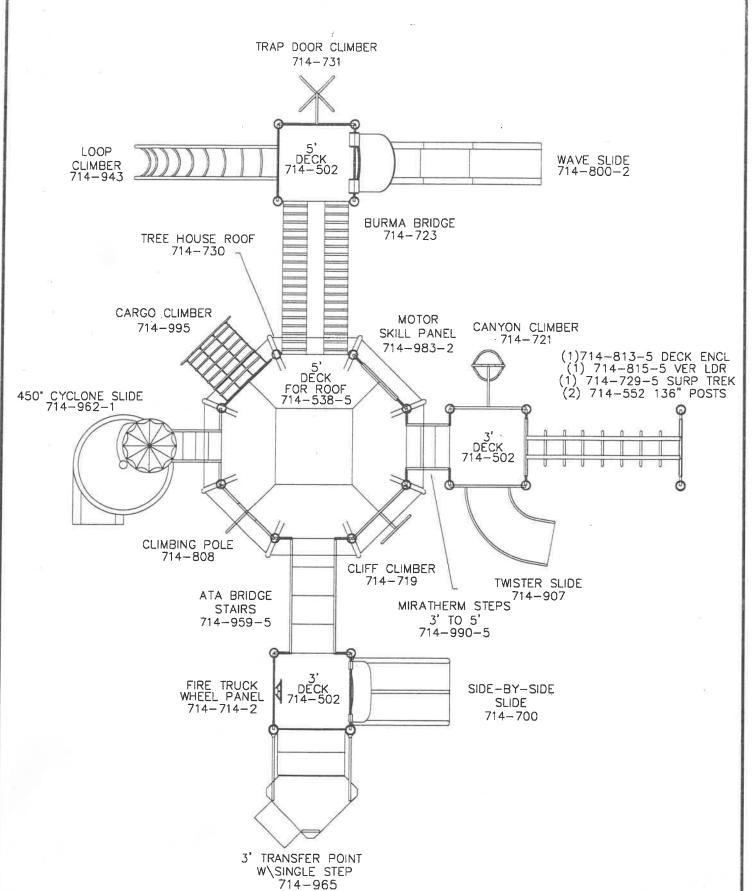


Installation Manual for your Miracle Playsystem

Brooklyn Park, MN Work Order #: 435141 Date: 5/20/98



PAGE 2 OF 4





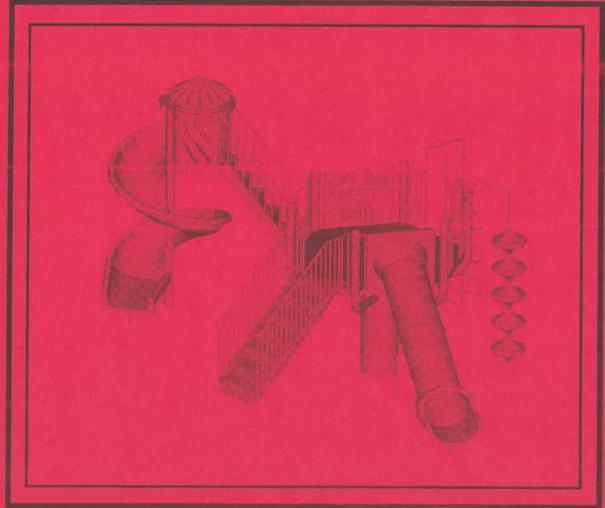


MIRACLE

RECREATION EQUIPMENT COMPANY

READ ME FIRST!

Miracles's Safety, Maintenance, & Installation Brochure



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MIRACLE'S SAFETY, MAINTENANCE & INSTALLATION BROCHURE

Thank you for your purchase from Miracle Recreation Equipment Company. We at Miracle along with our Sales Representatives are very appreciative of your business and value you as a customer.

This brochure was prepared to acquaint you with the important installation, maintenance and safety information you are responsible for as owner of this equipment. It is of the utmost importance that playground equipment be installed according to the manufacturer's installation instructions which are provided by Miracle, and that the equipment be inspected on a regular basis and properly maintained.

Please keep this brochure with the extra set of installation instructions (blue envelope) in your files, should you ever need to order any replacement parts.

Again, thank you for choosing a Miracle product.

If you have any questions about your installation or any other concerns, please contact us or your Miracle Sales Representative. Our Sales Representatives' toll free phone numbers are listed in the back of this "Read Me First" document.

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POST-INSTALLATION CHECK LIST

Check installation wi	th protrusion gauges and head/	torso probes.
		tness and proper hardware - washers, etc. Check smooth to expose no more than 2 threads.
Wipe down the unit to	o eliminate dust/dirt (soap & w	vater may be necessary).
Pick up around const	ruction site. All construction t	rash should be removed.
Make contact with ow parts with the owner.	vner before leaving work-site;	leave blue "customer envelope" and any spare
•	the installation was done according to the installation w	ording to manufacturer's specifications. Note any ety surface.
Remind the owner that	at equipment should <u>NOT</u> be u	sed for 72 hours after installation.
See to it that the owner moving on to the next		ff" at the completion of the installation, prior to
	t done according to specification authorized this change.	ons, please indicate changes and describe reason
Authorized by:		on Date:
List any types of hardw	vare that were a consistent pro	blem, i.e. not working properly or shortages:
List any unusual proble	ems or concerns about the insta	allation:
(Signed by Au	thorized Customer.)	(Date)

Safety Brochure 100 January 1, 1995 Rev. E

SCOPE

General safety recommendations applicable to the installation and maintenance of play equipment supplied by Miracle Recreation Equipment Company.

INSTALLATION

I. SURFACES

All play equipment must be installed over an acceptable impact absorbing surfacing material. It is the responsibility of the playground designer, installer and operator to ensure that the size, type and depth of impact absorbing surfacing material used complies with the U.S. Consumer Product Safety Commission "Handbook for Public Playground Safety" (CPSC Handbook). This impact absorbing surfacing material must cover the entire "Fall Zone" area to a depth appropriate for the height of the play equipment. The "Fall Zone" is an area under and all around each piece of play equipment. See the "Fall Zones" section below for specific dimensional sizes for specific types of play equipment. Please refer to the CPSC Handbook for a more detailed discussion of these issues.

Acceptable Surfaces

Acceptable impact absorbing surfacing materials include unitary safety surfacing such as pour-in-place rubber or rubber tile, and natural loose fill materials such as bark nuggets, wood mulch, wood chips, pea gravel and sand. Appropriate thicknesses for the PlaysafeTM or Fall SaverTM materials can be obtained from your Miracle Sales Representative. For the loose fill materials listed, Miracle recommends a minimum depth of twelve (12) inches.

Unacceptable Surfaces

Unacceptable surfaces include turf, undisturbed natural ground, undisturbed compacted sand, decomposed granite, asphalt, concrete or any other hard surfacing.

FALL ZONES:

Fall zones are the areas under and all around each piece of play equipment that must be covered with an acceptable impact absorbing surfacing material (see "Surfacing" section above.) The specific size of these fall zones depend upon the type of play equipment as follows:

Regular Swings:

The fall zone must extend at least two (2) times the pivot point height to both the front and rear of the top rail. The fall zone must extend at least six (6) feet out at each end from the swing frame legs.

Tire swings:

The fall zone must extend at least six (6) feet plus the length of the suspension members in all directions. The fall zone must also extend at least six (6) feet out at each end from the swing frame legs.

Slides:

The fall zone must extend at least six (6) feet in all directions from the perimeter of the slide. Also, in front of the slide exit measuring from the point where the slide slope is reduced to 5 degrees, the fall zone must extend a total of four (4) feet plus the height of the platform.

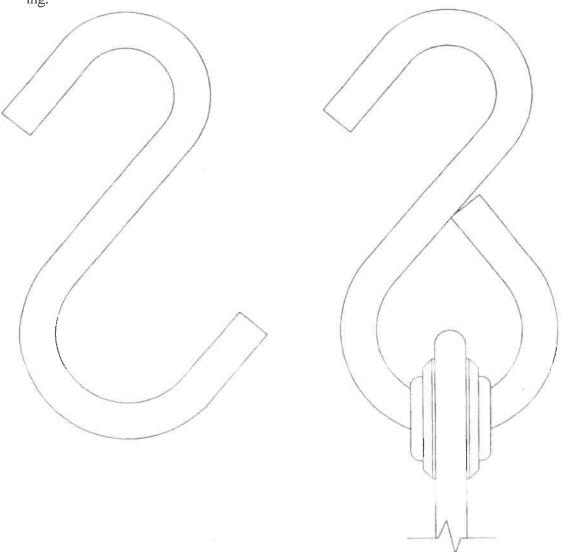
All other play equipment:

The fall zone must extend at least six (6) feet in all directions from the perimeter of the play equipment.

II. OTHER IMPORTANT ITEMS

During the installation and maintenance process, ensure that:

- A. There are no exposed concrete footings to trip over or fall on. The top of all footings must be at or below the bottom of the layer of impact absorbing surfacing material.
- B. All bolt threads protruding beyond the nut are cut and peened smooth to the touch. Sharp edges and/or points of any kind must be eliminated. No more than two threads may be exposed beyond the end of the nut.
- C. All bolts, screws, set screws or other fasteners are tightened securely. Missing bolts, set screws or other fasteners must be replaced immediately.
- D. All "S" hooks and clevises are free of any wear. That all "S" hooks are closed metal to metal and all clevises and supporting hardware are securely attached. A Miracle "S" hook for swing seat use has the dimensions of 2-3/4" x 4-1/2" and looks like the following drawing.



(ACTUAL SIZE)

MAINTENANCE

REGULAR MAINTENANCE INSPECTIONS

During the course of play (particularly with new play equipment which is heavily used the first few weeks), it is common that holes and trenches develop in loose fill impact absorbing surfacing material, i.e. under swings, around slides (exit, entry), around whirls, around and under climbers and see saws, etc. The loose fill impact absorbing surfacing material must be maintained at the appropriate depth of twelve (12) inches.

DURING REGULAR MAINTENANCE INSPECTIONS ENSURE:

- A. There are no sharp edges and/or points of any kind.
- B. All bolts, screws, set screws or other fasteners are tightened securely. Missing bolts, set screws or other fasteners must be replaced immediately. See Specifications and Installation Instructions for replacement parts listed in the bill of material or parts carton. Use only original replacement parts from Miracle.
- C. All "S" hooks and clevises are free of wear with all "S" hooks closed metal to metal and all clevises and supporting hardware securely attached.
- D. All swings seats are in good condition. Some examples of things to look for indicating swings seats/swing riders need to be repaired or replaced:
 - If the grommet area or any other part of the seat shows signs of wear such as rust or stress cracks in the rubber, immediately remove the seat from service. Be sure that the grommet is in good condition and that only the large "S" hook passes through the swing seat grommet.
- E. If any of the following conditions are present, immediately remove the seat from service:
 - Rusting, splitting, checking, warping, complete breakage, visible cracks, splintering, deteriorated insert material, exposure of the rubber encapsulated metal in the seat, loose seats, heavy seats with sharp edges or corners, loose bolts and nuts, exposed and/or protruding parts, pinch and/or crush points and/or evidence of vandalism.
- F. All of chains, rods, ropes or cables are in good condition. Replace chains, rods, ropes or cables if any of the following are observed:
 - Cracking, rusting, complete breakage, chain links that have become thin with wear, bending, warping, frayed rope and/or cable, deformation, worn, loose or sharp edges, exposed ends, protrusions and/or evidence of vandalism.

Anything showing any sign of wear, fatigue or otherwise presenting an unsafe condition must be immediately replaced. If not immediately replaced, the play equipment must be removed from service and no one permitted to use the play equipment until the problems are corrected. Be sure to understand, apply and utilize the CPSC Handbook For Public Playground Safety, all materials and information provided by Miracle, and your own knowledge and experience in determining if wear, fatigue or any other unsafe condition exists.

All missing parts must be immediately replaced. The play equipment must be removed from service and no one permitted to use the play equipment until the missing parts are replaced. Use only original replacement parts from Miracle.

This is a partial listing of regular maintenance and inspection items. Utilize the CPSC Handbook as an additional guide and reference. You must develop a checklist specific to your needs as determined by use, weather, etc. Maintenance is your responsibility. Only you can do it! Please protect the user of the play equipment.

MISUSE

Any attempt to alter, adapt, change, attach to or assemble the play equipment for anything other than its intended use as stated in the specification/installation instructions is strictly prohibited. Miracle's play equipment by design has an intended specific use. Lack of maintenance and/or usage in a manner other than its intended use can result in serious injury.

INSTALLATION POLICY

All play equipment is shipped unassembled. Miracle does not install play equipment. Miracle's products are safe for use when installed (which includes the installation of an acceptable impact absorbing surfacing material having a minimum depth as specified in Section I), inspected and maintained in accordance with Miracle's Specifications, Installation Instructions and Safety Requirements (set out in this Brochure, Brochure 200, Brochure 300, "Preventative Maintenance For Safety Sake", catalog safety tips, information and illustrations and CPSC Handbook). For specific step by step instructions on each piece of play equipment see Specification and Installation supplied with each piece of play equipment. Also, follow the CPSC Handbook on play equipment spacing, play area separation, supervision and other safety considerations.

INDEMNITY

Purchaser agrees to assemble, install, inspect and maintain the play equipment in accordance with Miracle's installation specifications and Safety Requirements (set out in Brochure 100, Brochure 200, Brochure 300, "Preventative Maintenance For Safety Sake", Catalog safety tips, information and illustrations and "U. S. Consumer Product Safety Commission Handbook For Public Playground Safety" (CPSC Handbook). Purchaser acknowledges it has complete control over assembly, installation, inspection and maintenance of the play equipment. Purchaser further agrees to indemnify and hold Miracle harmless and free of any liability for Purchaser's failure to assemble, install, inspect or maintain the play equipment in full compliance with Miracle's installation specifications, safety requirements and CPSC Handbook. This indemnity shall cover and include all Miracle's exposure to liability, judgments, settlements, damages of any kind, including punitive or exemplary damages, reasonable attorneys fees, expenses and all other costs of defense or claims handling resulting from Purchaser's failure to comply. This indemnity shall apply regardless of any finding or allegation concerning Miracle's culpability so long as it is alleged or found that an accident was caused in whole or part by Purchaser.

If there are any questions regarding the installation of this play equipment, please write or call:

MIRACLE RECREATION EQUIPMENT COMPANY

P. O. Box 420 Highway 60 And Bridle Lane Monett, Missouri 65708-0420 (417) 235-6917 or (800) 523-4202

CONSUMER PRODUCT SAFETY COMMISSION PLAYGROUND SAFETY SUMMARY

SURFACING

All play equipment must be installed over an acceptable impact absorbing surfacing material. It is the responsibility of the playground designer, installer and operator to ensure that the size, type and depth of impact absorbing surfacing material used complies with the Consumer Product Safety Commission (CPSC) Handbook. The impact absorbing surfacing material must cover the entire "Fall Zone" area to a depth appropriate for the height of the play equipment. The "Fall Zone" is an area under and all around each piece of play equipment. See the "Fall Zone" section below for specific dimensional sizes for specific types of play equipment.

Note: Refer to the U.S. Consumer Product Safety Commission "Handbook for Public Playground Safety" for more detailed discussion of these issues.

Acceptable Surfaces

Acceptable impact absorbing surfacing materials include unitary safety surfacing such as pour-inplace rubber or rubber tile, and natural loose fill materials such as bark nuggets, wood mulch, wood chips, pea gravel and sand. Appropriate thicknesses for the Playsafe[™] or Fall Saver[™] materials can be obtained from your Miracle Sales Representative. For the loose fill materials listed, Miracle recommends a minimum depth of twelve (12) inches.

Unacceptable Surfaces

Unacceptable surfaces include turf, undisturbed natural ground, undisturbed compacted sand, decomposed granite, asphalt, concrete or any other hard surfacing.

CRITICAL HEIGHT

The term Critical Height is used to describe the shock absorbing performance of a surfacing material. The Critical Height for a surfacing material is defined as the maximum height from which the instrumented metal headform, upon impact, yields both a peak deceleration of no more than 200 G's and a HIC of no more than 1,000 when tested in accordance with the procedure described in ASTM F1292. Critical Height, therefore, can be considered as an approximate of the maximum fall height from which a life-threatening head injury would not be expected to occur. The surfacing material used under and around a particular piece of playground equipment should have a Critical Height value of at least the height of the highest accessible part of the equipment.

HIGHEST ACCESSIBLE PART OF EQUIPMENT

Recommendations for the "highest accessible part" for various pieces of playground equipment are as follows.

Swings:

The highest accessible part of a swing structure is the height of the pivot point where the swing's suspending elements connect to the supporting structure.

Elevated Platforms Including Slide Platforms:

Since children may climb onto or over guardrails, the highest accessible part of a platform surrounded by guardrails is the height above the playing surface of the top of the guardrail. Since protective barriers are designed to minimize the likelihood of climbing, the highest accessible part of a platform surrounded by protective barriers is the height of the platform surface above the ground

Climbers and Horizontal Ladders:

For structures that are intended to be climbed upon, the highest accessible part is the maximum height of the structure.

Whirls:

The highest accessible part is the height above the ground of any part at the perimeter on which a child may sit or stand.

See-Saws:

The highest accessible part is the maximum height attainable by any part of the see-saw.

Spring Rockers:

The highest accessible part is the maximum height above the ground of the seat or designated play surface.

FALL ZONES

Fall zones are the areas under and all around each piece of play equipment that must be covered with an acceptable impact absorbing surfacing material (see "Surfacing" section above). The specific size of these fall zones depend upon the type of play equipment as follows:

Regular Swings:

The fall zone must extend at least 2 times the pivot point height to both the front and rear of the top rail. The fall zone must extend at least 6 feet out at each end from the swing frame legs.

Tire Swings:

The fall zone must extend at least 6 feet plus the length of the suspension members in all directions.

The fall zone must also extend at least 6 feet out at each end from the swing frame legs.

Slides:

The fall zone must extend at least 6 feet in all directions from the perimeter of the slide. Also, in front of the slide exit measuring from the point where the slide slope is reduced to 5 degrees, the fall zone must extend a total of four feet plus the height of the platform.

All other play equipment:

The fall zone must extend at least 6 feet in all directions from the perimeter of the play equipment.

STABILITY

All play equipment should be properly anchored. All footings should be stable and covered by the impact absorbing surfacing material.

DETERIORATION

Steel parts should be galvanized, powder coated or painted to prevent rust. Wood should be naturally rot and insect resistant (i.e. Redwood) or be treated to avoid such deterioration.

HARDWARE

All fasteners and connectors should not be removable without the use of tools. Lock washers, self-locking nuts or other locking means should be provided for all nuts and bolts to protect them from detachment. All "S" hooks should be closed tight, metal to metal.

SHARP POINTS, CORNERS AND EDGES

There should be no sharp points, sharp corners or sharp edges on any playground equipment. Wood parts should be smooth and have no splinters.

PINCH, CRUSH AND SHEARING POINTS

There should be no accessible pinch, crush or shearing points on playground equipment.

ANGLES

The angle of any vertex formed by adjacent components should not be less than 55 degrees unless the lower leg is horizontal or projects downwards.

TRIP HAZARDS

All anchoring devices for playground equipment should be installed below the play surface to eliminate the hazard of tripping.

STAIRWAYS AND LADDERS

Steps or rungs should be evenly spaced, including the spacing between the top step or rung and the surface of the platform. Table 1 contains recommended dimensions for: access slope, tread or rung width, tread depth, rung diameter and vertical rise for rung ladders, stepladders and stairways.

TABLE 1
Recommended Dimensions for Access Slope, Tread or Rung Width, Tread Depth, Rung Diameter and Vertical
Rise for Rung Ladders, Stepladders, Stairways and Ramps.

TYPE OF ACCI	ESS	AGE OF INTE 2 - 5 YEARS	ENDED USER 5-12-YEARS
Rung Ladders	Slope Rung Width Vertical Rise (tread to tread) Rung Diameter	75°-90° ≥12" ≤12"** 1"-1.67"	75°-90° ≥16" ≤12"** 1"-1.67"
Stepladders	Slope Tread Width - Single File - Two-Abreast Tread Depth - Open Riser - Closed Riser Vertical Rise (tread to tread)	50°-75° 12"-21" * ≥7" ≥7" ≤9"**	50°-75° ≥16" ≥40" ≥3" ≥6" ≤12"**
Stairways	Slope Tread Width - Single File - Two-Abreast Tread Depth - Open Riser - Closed Riser Vertical Rise (tread to tread)	≤35° ≥12" ≥30" ≥7" ≥7" ≤9"**	≤35° ≥16" ≥40" ≥8" ≥8" ≤12"**
Ramps (not intended for access by the disabled)	Slope (vertical/horizontal) Width - Single File - Two-Abreast	≤1:8 ≥12" ≥30"	≤1:8 ≥16" ≥40"

^{*} Not recommended for preschoolers

RUNGS

Rungs are generally round in cross-section and should have a diameter or maximum cross-sectional dimension between 1 and 1.67 inches.

HANDRAILS

Continuous handrails extending over the full length of the access should be provided on both sides of all stairways and stepladders. Handrails should be available beginning with the first step. The vertical distance between the top front edge of a step (tread nosing) and the top surface of the handrail above it should be no less than 22 inches and no more than 38 inches. The diameter or maximum cross-sectional dimension of handrails should be between 1 and 1.67 inches.

^{**}Entrapment provisions apply

PLATFORMS

Platforms should be within ±2 degrees of a horizontal plane and openings should be provided to allow for drainage.

GUARDRAILS AND PROTECTIVE BARRIERS

Guardrails or protective barriers should be provided on platforms in accordance with the following minimum elevation recommendations. Platforms are exempt from these recommendations if a guardrail or protective barrier would interfere with the intended use of the equipment.

Preschool Age Children:

Guardrails are acceptable for platforms greater than 20 inches and less than or equal to 30 inches high. Protective barriers should always be used for platforms that exceed 30 inches in height. The top surface of guardrails should be at least 29 inches high and the lower edge should be no more than 23 inches above the platform. The top surface of protective barriers should be at least 29 inches high.

School Age Children:

Guardrails are acceptable for platforms greater than 30 inches and less than or equal to 48 inches high. Protective barriers should always be used for platforms that exceed 30 inches in height. The top surface of guardrails should be at least 38 inches high and the lower edge should be no more than 26 inches above the platform. The top surface of protective barriers should be at least 38 inches high.

STEPPED PLATFORMS

Unless there is an alternate means of access, the maximum difference in height between stepped platforms should be 12 inches for preschool age children and 18 inches for school age children.

SLIDE PLATFORM

Slide platforms should have a minimum length of 22 inches. Slide platforms should be horizontal and have a width at least equal to the width of the slide. At the entrance to the chute there should be a means to channel a user into a sitting position. This may be a guardrail, hood or other device.

SLIDING SECTION OF STRAIGHT SLIDES

The average incline of the sliding surface should not exceed 30 degrees. Straight slides with flat open chutes should have sides with a 4 inch minimum height extending along both sides of the chute for the entire length of the inclined sliding surface.

SLIDE EXIT

The exit region should be essentially horizontal and parallel to the ground and have a minimum length of 11 inches. For slides that are no more than 4 feet in height, the height of the exit region should be not more than 11 inches above the protective surface. For slides that are over 4 feet in height, the exit region should be at least 7 inches but not more than 15 inches above the protective surface.

TUBE SLIDES

The minimum internal diameter of the tube should be no less than 23 inches.

ROLLER SLIDES

Roller slides are not recommended for public playgrounds unless frequent maintenance can be guaranteed.

SINGLE AXIS SWINGS

There should be no more than two single axis swings hung in each bay of the supporting structure. Attaching single axis swings to composite structures is not recommended. Swing seats should be designed to accommodate no more than one user at any time. Wood or metal swing seats are not recommended. When measured from a height of 33 inches above the bottom of the swing seat, the distance between swings should be at least 24 inches and the distance between the swing and the support structure should be at least 30 inches. Swing hangers should be spaced wider than the width of the swing seat when occupied.

MULTI-AXIS TIRE SWINGS

Clearance between the seating surface of a tire swing and the uprights of the supporting structure should be at least 30 inches when the tire is in a position closest to the support structure. Attaching multi-axis tire swings to composite structures is not recommended.

SWINGS NOT RECOMMENDED FOR PUBLIC PLAYGROUNDS

With the exception of tire swings, swings that are intended for more than one user are not recommended. Animal figure swings are not recommended. Rope swings are not recommended. Swinging exercise rings and trapeze bars are not recommended.

CLIMBERS WITH NON-RIGID COMPONENTS

Flexible climbing devices are not recommended as the sole means of access to equipment intended for preschool age children.

ARCH CLIMBERS

Arch climbers should not be used as the sole means of access to other equipment. Free standing arch climbers are not recommended for preschool age children. The rung diameter and spacing of rungs on arch climbers should follow the recommendations for rung ladders in Table 1.

HORIZONIAL LINDENG MINDER WESTERS DIVINGED

The center to center spacing of horizontal ladder rungs should not exceed 15 inches. This does not apply to the spacing of the rings on handring bridges. The first handhold on either end of upper body equipment should not be placed directly above the plantorm of cambridge used for mount or dismount.

SLIDING POLES

Sliding poles are not recommended for preschool age children. Sliding poles should be continuous with no protruding welds or seams along the sliding surface. The pole should not change direction along the sliding portion. The horizontal distance between a sliding pole and the edge of the platform should be at least 18 inches. The sliding pole should not be more than 20 inches away from the edge of the platform. The pole should extend at least 38 inches above the level of the platform. The diameter of sliding poles should be no greater than 1.9 inches.

CLIMBING ROPES

Climbing ropes should be anchored to a footing at the lower end.

BALANCE BEAMS

Balance beams should be no higher than 12 inches.

WHIRLS

Handholds should be provided. No components of the whirl, including handholds, should extend beyond the perimeter of the platform. The rotating platform of a whirl should not have any sharp edges. The surface of the platform should be continuous with no openings that permit a rod having a diameter of 5/16 inch to penetrate completely through the surface. Whirls should not be provided with an oscillatory (up and down) motion.

SEESAWS

The fulcrum of seesaws should not present a pinch or crush hazard. Handholds should be provided at each seating position for gripping with both hands. Handholds should not protrude beyond the sides of the seat.

SPRING ROCKING EQUIPMENT

Spring rocking equipment should be equipped with handholds and footrests. The springs of rocking equipment should minimize the possibility of children pinching either their hands or their feet between coils or between the spring and a part of the rocker.

TESTING PROCEDURES FOR C.P.S.C. HEAD PROBES & PROTRUSION GAUGES

HEAD ENTRAPMENT REQUIREMENTS FOR COMPLETELY BOUNDED OPENINGS:

When tested in accordance with the procedure below, an opening conforms to the head entrapment requirement if:

- 1. The opening does not admit the Small Torso Probe, or
- 2. The opening admits the Small Torso Probe and also admits the Large Head Probe.

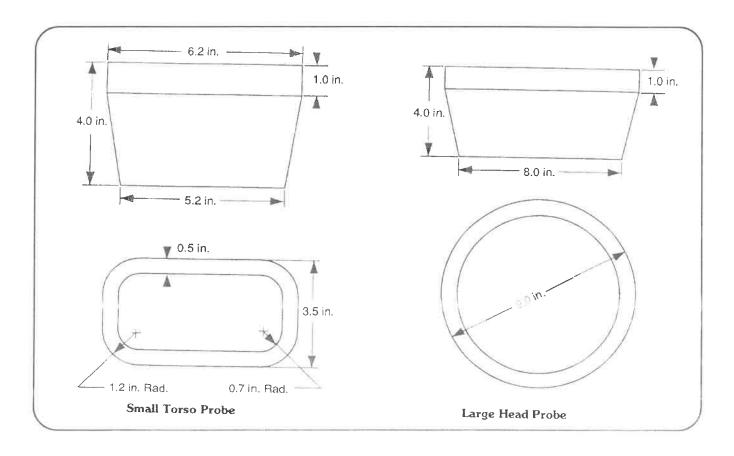
An opening fails to conform to the requirement if it admits the Small Torso Probe but does not admit the Large Head Probe.

Note: Openings that have the protective surfacing as a lower boundary are exempt from this requirement and do not need to be tested.

Head Entrapment Test Procedure:

Place the Small Torso Probe in the opening with its base parallel to the plane of the opening. Rotate the probe while keeping its base parallel. If the probe penetrates the opening to a depth greater than four (4) inches, the opening has admitted the probe.

Place the Large Head Probe in the opening with its base parallel to the plane of the opening. If the probe passes through the opening, the opening has admitted the probe.



PROTRUSIONS AND PROJECTIONS

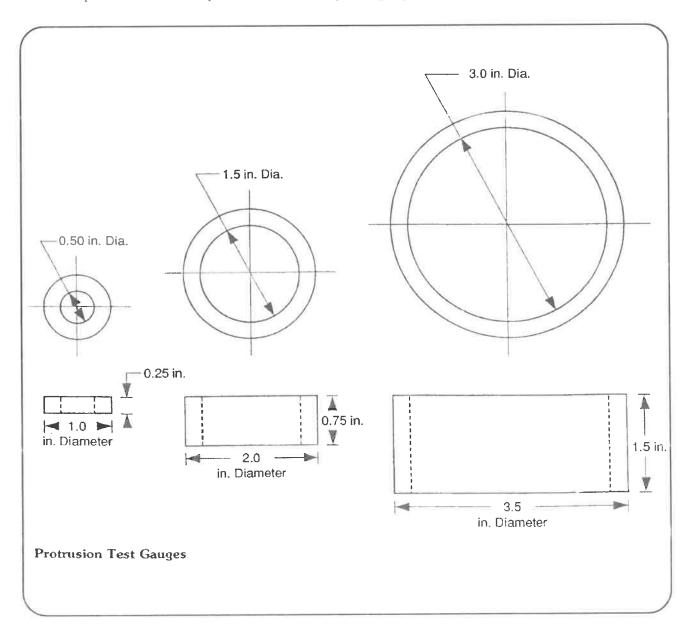
Place each protrusion gauge (small, medium and large) successively over each protrusion.

If any part of the protrusion extends past the end of any of the three gauges, then it fails the test. If no part of the protrusion extends past the end of each gauge, then it passes the test.

Additional Protrusion Test Requirements for Swing Seats:

Place the special swing seat protrusion gauge (size: 2 inches diameter by 1/8 inch thick) over each protrusion sticking out the front or the rear of the swing seat.

If any part of the protrusion extends past the end of the special gauge, then it fails the test. If no part of the protrusion extends past the end of the special gauge, then it passes the test.



SAMPLE PLAYGROUND INSPECTION FORM

PARK/FACILITY	DATE			
INSPECTED BY				
PLAYGROUND SURFACE AREA	<u>OK</u>	IF NOT OK. COMMENTS OR ACTION TO BE TAKEN		
 Footings exposed, cracked or loose in ground? Poor drainage areas? Inadequate safety surface material? Safety surface depth sufficient (12")? Does safety surface comply with ADA? Fall zones not per CPSC (6' perimeter all directions)? Trip hazards, tree roots or rocks in play area? Broken glass, trash or foreign objects in play area? General condition/appearance of play area? 	00000000	YESNODON'T KNOW		
PLAY STRUCTURES 1. Broken supports or anchors? 2. Pipe ends missing plugs or caps? 3. Broken or missing rails/rungs/steps? 4. Protruding bolt heads or threads? 5. Loose, missing, worn or rusted bolts/nuts/ or other fasteners? 6. Broken clamps? 7. Peeling or chipped paint? 8. Entrapment/pinch or crush points 9. Vinyl coated decks/platforms/steps have visible cracks or peeling? 10. Excessive wear of any component/slide/part? 11. Splintered/checking or warped wood? 12. General condition/appearance?		GOODFAIRPOOR		
SWINGS 1. Broken, twisted, worn, rusted chain? 2. Inadequate (Non-commercial/'4-0") chain? 3. Worn, rusted or broken swing hangers. 4. Open worn or rusted "S" hooks? 5. Grommets show wear or rust? 6. Missing, worn or cracked swing seats? 7. Inadequate fall zone around swings? 8. Swing frame damaged? 9. Swing frame loose in footing? 10.Swing chain wrapped around toprail? 11.Safety surface worn or scattered? 12.Loose, missing or protruding bolts? 13.General condition/appearance?	0 000 0 000 0 000 0	GOOD FAIR POOR		
SLIDES 1. Slide bedways have any imperfections? 2. Handrails loose or missing? 3. Steps broken or missing, or flaws/cracks? 4. Sit down transition platform present? 5. Safety rails or sit down canopy at bedway entry present? 6. Slide exit parallel to ground? 7. Safety surface at slide exit worn away? 8. Fall Zone adequate on all sides? 9. General condition/appearance?	0000000	GOOD FAIR POOR		

SAMPLE PLAYGROUND INSPECTION FORM

	<u>OK</u>	IF NOT OK, COMMENTS OR ACTION TO BETAKEN
TIRESWING 1. Swing header too short? 2. Swivel assembly exposed (boot missing)? 3. "S" hooks or chains defective? 4. Tire worn, cut or broken? 5. General condition/appearance?		GOOD FAIR POOR
FREESTANDING CLIMBERS/MONKEY BARS		
1. Not free-fall design? 2. Loose or broken rails or rungs? 3. Need painting? 4. Missing bolts or fasteners? 5. Adequate safety surface and fall zone? 6. General condition/appearance?		GOOD FAIR POOR
WHIRLS/MERRY-GO-ROUND 1. Loose or missing fasteners? 2. Handrails secure? 3. Deck sections and center plate secure? 4. Underside of deck edge sharp? 5. Bearings worn/need replacing? 6. Whirl stable? 7. Rut around whirl? 8. General condition/appearance?		GOOD FAIR POOR
SPRINGRIDERS 1. Coil or "C" Spring loose? 2. Coil or "C" Spring broken? 3. Spring Rider broken? 4. General condition/appearance?		GOODFAIRPOOR
SEE-SAW/TEFFER-TOTTER 2. See-Saw board broken? 3. See-Saw scats or handles missing? 4. Adequate cushioning under seats area? 5. General condition/appearance?		GOOD FAIR POOR

SAMPLE PLAYGROUND INSPECTION FORM

	<u>OK</u>	IF NOT OK. COMMENTS OR ACTION TO BE TAKEN
MISCELLANEOUS ITEMS FOR GENERAL MAINTENANCE & INSPECTION		
1. Bleachers 2. Player benches 3. Basketball backboard, rim. nets* * Backboards should extend at least 32" from support post (so players don't run into post doing lay-ups or rebounding)		
4. Picnic tables - seats and tops 5. Park benches 6. Grills 7. Drinking fountains 8. Soccer goals and nets 9. Baseball and softball backstops and fencing 10.Baseball and softball bases and equipment 11.Outdoor volleyball posts and nets 12.Playground timber edging 13.Trash containers 14.Park shelters and gazebos	0000000000	
15.Outdoor exercise equipment and signage 16.Park gates 17.Park signage 18.Parking blocks 19.Area clear of glass, cans, litter? 20.Any vandalism/graffiti? 21.Maintain surfacing under equipment 22.Check and clean restrooms regularly 23.Overall general appearance of park/facility	3000000	GOODFAIRPOOR

PLAYGROUND SITE PREPARATION TIPS

♦ STEP ONE

Ground Preparation: excavation, drainage

Barrier to hold surfacing: Earth berm, tie walls, or concrete

♦ <u>STEP TWO</u>

Installation of equipment

♦ STEP THREE

Safety Surfacing Materials:

Rubber surfacing, shredded tires, pea gravel, wood chips, sand

INSTALLATION OPTIONS

• OPTION A:

Many of our Sales Representatives can provide a supervisor to work with your installation crew, available on a per day basis.

♦ OPTION B

Installation of playground equipment only.

OPTION C

Installation of playground equipment plus any landscaping work required and installation of surfacing materials.

RECOMMENDATIONS FOR LOOSE FILL SURFACING

It is the recommendation of Miracle Recreation Equipment Company along with many of Miracle's specifiers and customers that the surfacing material used under play equipment be a minimum depth of twelve (12) inches. (See *Safety Brochure 100*, page 5)

Depending on the height of the equipment and the surface material used, a twelve (12) inch material depth should allow for a fall greater than will be seen under normal conditions and situations.

Miracle also recommends that a maintenance schedule be implemented to regularly re-level the surface material to maintain a uniform depth under and around the play equipment, especially in high-traffic areas (slide exits, beneath swing seats, and at the base of climbing activities).

The finished twelve (12) inch surface depth should allow for any compaction or settling that may occur between regular surfacing maintenance and will help ensure your playground equipment will have an appropriate depth of surface material in accordance with the Consumer Product Safety Commission guidelines.

If you have any further questions, please contact your Miracle Recreation Equipment Company Representative (listed in the back of this "Read Me First" document) to discuss your surfacing options further.

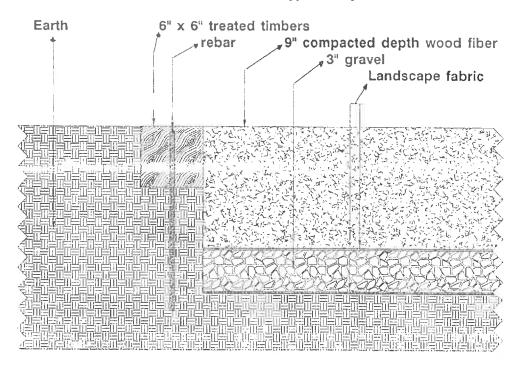
The Critical Heights shown in the table below may be used as a guide in selecting the type of loose-fill materials that will provide the necessary safety for equipment of various heights. There may be other loose-fill materials such as bark nuggets or shredded tires that have shock absorbing properties equivalent to those in the table below. However, no tests have been conducted on these materials by CPSC staff.

Critical Heights (in feet) of Tested Materials

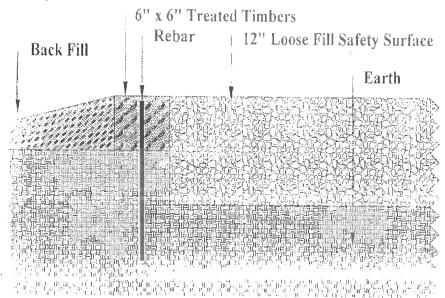
	Uncompressed depth			Compressed depth
Material	6 inch	9 inch	12 inch	9 inch
Wood Mulch	7	10	11	10
Double Shredded	1 6	10	11	7
Bark Mulch Uniform Wood Chips	6	7	>12	6
Fine Sand	5	5	9	5
Coarse Sand	5	5	6	4
Fine Gravel	6	7	10	6
Medium Gravel	5	5	6	5

SAMPLE DETAILS OF PLAYGROUND SAFETY SURFACING INSTALLATION AND PREPARATION

Typical detail for installation of wood fiber type safety surface



Typical detail for installation of a loose fill type of safety surface (sand, pea stone, loose rubber)



RECOMMENDED EQUIPMENT FOR INSTALLATION OF A MIRACLE PLAYSYSTEM

MINIMUM EQUIPMENT

- 1. Concrete 80 pound bags (Concrete must be 3000 psi minimum strength)
 - A size holes = three (3) 80 lb. bags
 - B size holes = one (1) 80 lb. bag
 - C size holes = ten (10) 80 lb. bags
- 2. Dow Flake (100 lb. bag per 30 bags of concrete)
- 3. Patio Block, 2" x 8" x 16" (one (1) block per every two (2) footing holes)
- 4. Concrete mixer and wheelbarrel or 5 gallon bucket(s).
- 5. Power source, electrical cord (25', 50', 100', long enough to reach work area), electrical gang box (4 plug), generator if no power source available
- 6. Water Source, Hose, and Nozzle (to reach work area)
- 7. Shovels (Spade)
- 8. Post hole diggers
- 9. Step ladders: 6' and 8'
- Hand tools: Hammers (standard & rubber), Rachet/Socket wrenches (at least 2 sets), Sockets (socket sizes 7/16", 1/2", 9/16", 5/8", 3/4"), screwdrivers, Allen head wrenches and sockets, tape measure, levels (one 4' and two magnetized 9" torpedo levels, drift pins, vice grips, open end wrenches 7/16" to 3/4"
- Power hand tools: Drills and various sized titanium Drill Bits for metal surfaces, Impact wrench
- 12. Wooden stakes and moving straps
- 13. Equipment to lift Cyclone and Thunderbolt slides in place (See below.)
- 14. Access to restroom facilities
- 15. Six (6) or more adult volunteers

OPTIMUM OPTIONAL EQUIPMENT

Transit

Power Cement Mixer

Trailer to move equipment if not on site

"S" Hook pliers for closing "S hooks

Powered Post Hole Diggers

FIRST CHOICE

Bobcat* with 12" & 18" post hole auger and 2' extension

SECOND CHOICE - Backhoe* with auger attachement

This equipment can also be used to lift a Cyclone (Spiral) stide and I hunderbolt (Tube) stide in place.

SELF DRILLING AND THREAD CUTTING SCREWS

Fasteners in parts cartons listed as tamper resistant self drilling screws may be substituted with a tamper resistant thread cutting screw. For ease of installation, both fastener types require that a 3/16" pilot hole be pre-drilled in the attachment surface (i.e., deck post) before installation of screw.

LOCKING FASTENERS FOR ALL PLAYSYSTEMS

All fasteners used in Miracle playground systems are now locking. This is accomplished in a variety of ways including Nylon self locking nuts, bolts with internal nylon plugs or beads, pre-applied patches of Loktite TM style locking compound or internal tooth lock washers.

Part listings in the installation instructions may not yet reflect the different or additional parts required to implement the above fasteners. The fastener size and length will be correct and if it does not have an integral locking mechanism on either the bolt or nut, there will be a lock washer supplied for use with that fastener.

If you must replace one of the supplied fasteners locally, you must obtain a similarly locked fastener, substitute one of the other locking methods listed above or apply Loktite style locking compound to the replacement fastener.

CLAMPS AND HARDWARE FOR THE LOKVILLE™ PLAYSYSTEM

ATTENTION

The Lokville clamps and hardware for the Lokville clamps have been removed from the parts cartons as listed in the installation instructions. The correct quantity of Lokville clamps for your particular Lokville playsystem have been sent in separate boxes.

PREVENTIVE MAINTENANCE TIPS FOR CLEANING SURFACES

Miracote[™] powdercoated surfaces and Permaguard[™] painted surfaces:

Clean with detergent and water. Thoroughly rinse with water and allow to dry. Apply a coat of high quality automotive wax.

Rockite[™] polyethylene surfaces:

Clean with detergent and water. Thoroughly rinse with water and allow to dry.

Miratherm™ PVC-coated surfaces:

Clean with detergent and water. Thoroughly rinse with water and allow to dry.

Gelcoated fiberglass surfaces:

Clean with detergent and water. Thoroughly rinse with water and allow to dry. Apply a coat of high quality automotive wax.

Waterslides and pool slides:

- 1. Waterslides and pool slides are subject to many corrosive elements, such as pool chemicals which can induce fading, rust, paint flaking.
- 2. Miracle strongly recommends that both pool and waterslide understructure, stairs, railings, and platforms be rinsed with fresh water daily. This will help clean the accumulated pool chemicals, dirt, oil, etc. It will also provide the opportunity to have a visual inspection of the pool slides.
- 3. A daily maintenance record should be kept for warranty purposes.

For all surfaces:

Graffiti and other vandalism marks may be removed by using either acetone or "GOOF OFF" cleaner which are available commercially. Follow the instructions provided with the product.

Fall Saver Safety Cushioning On-Site Cleaning Guidelines

Fall Saver Safety Cushioning, in most cases, does not require cleaning on a regular basis; however, some owner's may desire regular cleaning for the purposes of maintaining the aesthetic appearance of the play area. The following recommendation apply for these purposes.

General Cleaning Recommendations:

Saturate entire playing surface with warm or cool water. Using a suitable cleaning device, such as a sponge mop, clean area as needed with mild soap and warm water. Use a soft bristle scrub brush for difficult areas. Do not use any solvents or bleaches or any cleaning solutions that are deleterious to rubber products. Thoroughly rinse the area after cleaning.

General Cleaning Recommendations for the Food Service Industry:

The same recommendation apply that are noted in our General Cleaning Recommendations. However, most facilities in the food Service Industry desire a more thorough cleaning than previously outlined. For these facilities it is recommended that a steam cleaner should be used in similar application as noted above using only a mild cleaning solution, containing no solvents or bleaches, in combination with the steam cleaner. Care should be taken that the pressure nozzle of the steam cleaner is held sufficiently away, approximately 18" - 24", so that the high pressure associated with steam cleaning does not damage the playing surface of the rubber. For the most difficult areas, a soft bristle scrub brush may be used. Thoroughly rinse the area after cleaning.

PLAYGROUND INSPECTION/MAINTENANCE AND REPAIR GUIDELINES

"The majority of playground injuries are a result of falls from the equipment to the surface below".

- 1. Never use concrete, asphalt, grass or compacted earth beneath and/or surrounding playground equipment. Always use a resilient, energy-absorbing material. The more resilient it is, the less likely an injury to the user who falls from the equipment.
- 2. The minimum dimensions of the fall zone around each play apparatus (except swings and slide exits) is 6 feet in each direction.
- 3. Swings fall zones must extend at least two (2) times the pivot height to both the front and rear of the top rail. The fall zone must extend at least six (6) feet out at each end from the swing frame legs.

The buyer/owner is responsible for maintenance of the equipment they have purchased.

- 1. A good preventive maintenance schedule can reduce accidents on public playgrounds.
- 2. Inspect your playgrounds and playground equipment on a regular scheduled basis.
- 3. Check your playground(s) for hazardous conditions. Equipment should be inspected for such things as loose or protruding bolts, missing hardware, damaged seats, open "S" hooks or chains, wear of chains, broken parts and splintering of wooden surfaces.
- 4. All debris and litter including broken glass, stones, bottles, cans, etc. should be removed.
- 5. Loose fill safety surfacing requires periodic raking to retain resilience in high use areas.
- 6. Playgrounds should be supervised at all times when children are present.
- 7. Playground supervisors should not allow children to use equipment incorrectly (i.e. running up slides, climbing on top of horizontal ladders or hand ring bridges, jumping out of swings, etc.)
- 8. Playground equipment should be installed to allow for safe transition between play apparatus.
- 9. Playground equipment should always be installed according to the manufacturers specifications.
- 10. A regular playground inspection schedule can be established equal to the use and location factors of the park or playground. Certain playgrounds could require daily inspections, others may require only weekly inspections.

PLAYGROUND EQUIPMENT REPAIR TIPS

To Repair Miracote[™] (Powdercoated) Surfaces:

Using fine grade sandpaper, sand the area to be painted. Clean and dry this area after sanding. If necessary, cover adjacent areas to protect them from over spray. Apply Miracle spray or brush on touch-up paint and allow to dry thoroughly between coats.

To Repair Rockite[™] (Polyethylene) Surfaces:

- Obtain a Rockite repair patch in the correct matching color from Miracle Recreation Equipment Company.
- 2 Cut out around the damaged Rockite area and then cut a patch that will fit snuggly into the area just cut out.
- 3. Insert the patch into the hole. Using a small propane torch, heat very slowly along the edge of the patch, (about 1/4" on either side of the patch line). The Rockite will get hot and shiny, and will fuse together.
- 4. While the area around the patch is still hot, take a putty knife and smooth out the seam along the edge of the patch. Be sure to heat the putty knife before using it so the Rockite will not stick to the putty knife.
- 5. To bring the patch back to its original color, lightly sand the area with fine sand paper and then run the torch over the area lightly to bring back the sheen.

To Repair Miratherm ™ (PVC) Coated Surfaces:

- 1. Obtain a bottle of Miratherm patch in the correct matching color from Miracle Recreation Equipment Company.
- 2 Be sure that the Miratherm area to be repaired is thoroughly clean and dry.
- 3. Apply the Miratherm patch material to the area to be repaired. Work the patch material into this area until the patch is blended in. Smooth the surface so it is flush with the surrounding material.
- 4. Allow the Miratherm patch to dry thoroughly: approximately 24 hours.

POURED-IN-PLACE SURFACING REPAIR TIPS

CAUTION: The Polyurethane Binder is a toxic substance and should be handled properly. Please read the *Poured-In-Place Surfacing Products Guidelines* and *Material Safety Data Sheet* (included with the repair kit) before handling this product.

Tools Needed

Materials Supplied

Rubber Gloves
Cement Trowel
Utility Knife
Small Paint Brush (1" to 1-1/2")
Plastic Sheet (approx. 4' x 4')
Hand Broom or Bristle Brush
Wheelbarrow (for larger repairs)

Rubber Granules Polyurethane Binder

- 1. Temperature must be above 50° F for at least two consecutive days.
- 2. Using a utility knife, cut away any torn or loose materials from the damaged area.
- 3. Damaged area should be broom cleaned and free of any loose materials.
- 4. Using a small paint brush or other similar applicator, brush a light film of polyurethane binder onto the area to be patched. Do not extend this primer coat onto the top of the existing surface; it should only be applied to the area that the patch material will be bonding to.
- 5. Using your rubber gloved hands, mix the Rubber Granules with the Polyurethane Binder on the plastic sheet or plastic lined wheel barrow for larger repairs. Be sure to use all of the granules and binder; they must be mixed at this ratio for proper application. Thoroughly mix these materials until all of the granules are evenly coated with the binder. Note: You will have between 15 and 30 minutes to work with this material so be sure to prepare the damage area before mixing.
- 6. Using a clean cement trowel, apply mixture to the damaged area and finish to a smooth surface.

 On the immshing strokes, press toward the adjacent existing surface; working from the middle of the patch and pushing outward. This will provide a tight, bonded joint at the seam. For larger patches, it may be necessary to apply a thin film onto the face of the trowel. Generally, this may be necessary for patches larger than 5 square feet.
- 7. Restrict traffic to the patched area until the next day. In areas of very low humidity, lightly spray the patched area with water to aid the cure process.

NOTES

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DRAWING NUMBER: 21176

WORK ORDER NUMBER(S): 435141

> DATE: 6/1/98 JAY WEBBER

IMPORTANT SAFETY NOTE:

IT IS THE RESPONSIBILITY OF THE PLAYGROUND DESIGNER. INSTALLER AND OPERATOR TO ENSURE THAT THE APPROPRIATE SIZE, TYPE AND DEPTH OF CUSHIONING MATERIAL IS USED. OUR TESTS HAVE SHOWN THAT A 12 INCH DEPTH OF BARK NUGGETS PROVIDES ADEQUATE CUSHIONING FOR ALL MIRACLE RECREATION PRODUCTS. THEREFORE, AS A GENERAL RULE, THE USE OF 12 INCHES OF BARK NUGGETS IN AN AREA AT LEAST 8 FEET OUT FROM THE STRUCTURE IN ALL DIRECTIONS IS SUGGESTED. (FOR MORE INFORMATION, PLEASE REFER TO THE U.S. CONSUMER PRODUCT SAFETY COMMISSION'S "HANDBOOK FOR PUBLIC PLAYGROUND SAFETY" SECTION 10 AND APPENDIX C.)

THIS PLAY SYSTEM FOLLOWS THE RECOMMENDATIONS CONTAINED IN THE U.S. CONSUMER PRODUCT SAFETY COMMISSION'S "HANDBOOK FOR PUBLIC PLAYGROUND SAFETY" REGARDING EQUIPMENT DESIGNED FOR:

SCHOOL AGE CHILDREN

THERE CAN BE LARGE DISPARITIES IN THE ABILITIES OF CHILDREN OF SIMILAR AGES. PARENTS MUST BE RESPONSIBLE FOR LIMITING THEIR CHILDREN TO THOSE ACTIVITIES THAT ARE APPROPRIATE AND SAFE FOR THEIR CHILDREN'S INDIVIDUAL ABILITIES.

MIRACLE RECREATION EQUIPMENT COMPANY

P.O. BOX 420 HWY 60 & BRIDLE LANE

MONETT, MISSOURI 65708 PHONE: 1-800-523-4202

FOOTING LAYOUT SCALE: 1"= 5'-0" PAGE 3 OF 4 1'-7" 1'-2" 5' DECK 1'-8" -2'--2'-12'-10" 2'-6" 1'-81''-2 2'-3" 1'-3" 3' DECK 1'-4" 4'-6" 2'-4" 2'-11" 10'-10" 3' DECK 3'-3"

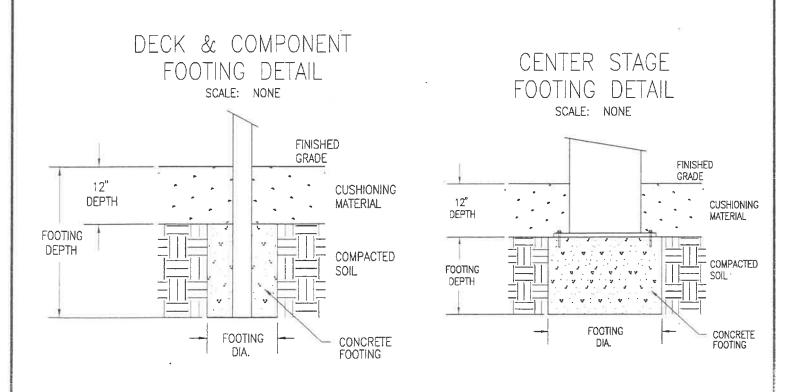
21176

POST LOCATION:

1			
FOOTING	MODEL	POST	LENGTH
A.B.C.D.E.F.G.H.J.K.L.M.Z.P.Q.R.S.	714-542 714-543 714-544 714-551 714-553 714-555 714-563 714-565 714-566 714-572 714-573 714-574 714-583 714-585 714-586	136" 160" 178" 106" 136" 160" 178" 157" 181" 168" 157" 181" 199"	POST. V. 42" DIA. X 18" DEEP. POST. V. 42" DIA. X 18" DEEP. POST. ARCH ROOF. A

FOOTING NOTES:

- 1. THESE FOOTING SIZES & LOCATIONS SUPERSEDE THOSE SHOWN IN THE INSTALLATION INSTRUCTIONS.
- 2. SOME EQUIPMENT LEGS MAY NOT REACH TO BOTTOM OF FOOTINGS.



PLACEMENT OF WARNING LABEL AND



MANUFACTURER I.D. LABEL



WARNING

INSTALLATION OVER A HARD SURFACE SUCH AS CONCRETE. ASPHALT, OR PACKED EARTH MAY RESULT IN SERIOUS INJURY OR DEATH FROM FALLS.



Both a Warning Label and a Manufacturers I.D. Label are provided for each deck model. Place Warning and I.D. Labels on a deck post at or near each deck access point (stairs, ramp entrys, transfer points, ladders, etc.) Each label should be positioned so it is readable by a person entering onto the deck.

APPLICATION OF WARNING AND I.D. LABELS

Prepare surface; remove any dust oil or grime from the label location area on the post. Ensure the area is dry. When area is both clean and dry, carefully peel off label from paper backing and place on post so that it is flush and flat to the plane of the post with no wrinkles or tears.

MAINTENANCE & REPLACEMENT OF WARNING AND I.D. LABELS

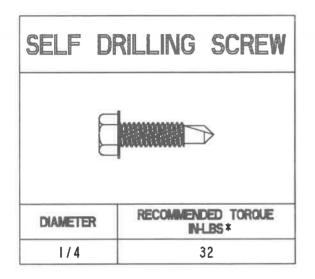
If label should become illegible, torn or is removed it is necessary for the owner to replace the label. Replacement labels may be obtained by calling our Customer Service Department at 1-800-523-4202, or write:

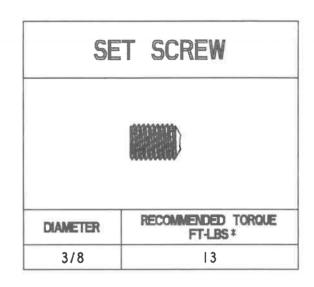
Miracle Recreation Equipment Company PO Box 420

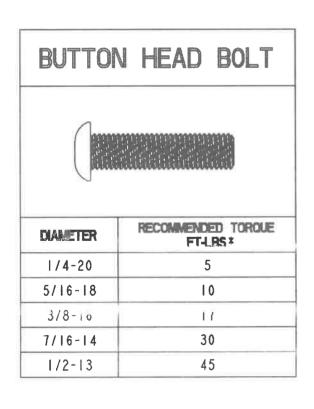




TORQUE CHART







HEX	HEAD BOLT
	inneren en e
	DECOMBINED TODOUS
DIAMETER	RECOMMENDED TORQUE
DIAMETER	RECOMMENDED TORQUE FT-LRS *
	FT-LBS*
1/4-20	FT-LBS*
1/4-20	5 10



Suggested Tools & Equipment For Installation of a MIRACLE Playsystem

- Concrete for footings
 - 2000 PSI (minimum)
 - 3000 PSI (minimum) if freezing conditions exist
- Digging equipment for footing holes (auger, Bobcat with post hole auger [optional], post hole digger, spade shovels
- Patio block, 2" x 8" x 16" (One block per every two footing holes)
- Wheelbarrow or concrete mixer with 5 gallon bucket (s)
- Water supply and garden hose
- Generator / power source
- Electrical gang box and extension cord (s) (25', 50' 100'; long enough to reach work area)
- Step ladders
- Transit (optional) or string line to aid in layout
- Saw horses
- Levels (2) 9" magnetic torpedo levels & (1) 4' carpenters level
- Two (2) tape measures
- Open end wrench set
- Allen wrenches or hex keys
- Socket set (2) sets optimum
- Screwdrivers
- Drift Pins
- Box Knife(s)
- C-Clamps & Vice Grips
- Electric Drill & various sized drill bits
- Impact wrench (optional)
- Hammers (standard and rubber mallet)
- Wooden stakes and moving straps (optional)
- Six (6) or more adult volunteers
- Equipment (crane or Bobcat) to lift larger Cyclone or Thunderbolt slides in place
- "S" hook pliers for closing "S" hooks on swings, etc.
- Felt tip pens (washable) for marking clamp locations
- Trailer to move equipment if not on site
- Access to restrooms

Important Notes

- 1. Before installing or erecting this equipment, please read and comply with all applicable recommendations in Safety Brochure 100 enclosed. If for some reason this brochure is missing, contact your local Miracle sales representative for a copy.
- 2. Before starting construction, check with all utility companies for exact locations of underground utilities.
- 3. When designing areas for footings and the area under and adjacent to all equipment, consideration should be given to soil types and subgrade characteristics. The purchaser and/or installing contractor will be responsible for proper installation and insuring that abnormal and unsafe compaction does not occur in these areas, which are generally recommended to be under and a minimum of 6' out from the edges of all play structures.
- 4. It is the purchaser's responsibility to maintain these areas properly after installation. It is recommended that compaction tests be made several times per year. When compaction occurs, it is recommended that the area affected be scarified or additional pea gravel, sand, redwood bark or coarse wood chips be added until the area is soft and resilient.

Guidelines & Tips For the Installation of your Miracle Playstructure

Helpful Hint

Before beginning your installation, visit an existing site with a similar Miracle playstructure (contact your Miracle Sales Representative for a location). This will help you to better understand the scope of work ahead as well as familiarize you with what the installed finished product should look like.

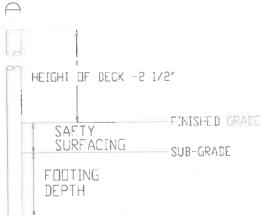
- Review the safety information provided in your Miracle Installation Manual. Install components as instructed.
- Pre-Installation Check List:
 - SITE LOCATION Check to be sure the site selected is large enough for your Miracle playstructure and the minimum protective area recommended in your layout plan.
 - SITE PREPARATION Make sure all site preparation is completed including site leveling and all debris removal. Before digging any footings, inquire with local utility companies to insure there are no underground utilities.
 - **DRAINAGE** Note: It is important that the sub-surface drains well to eliminate standing water. If the sub-surface does not drain naturally it must be tiled or sloped at 1/8" to 1/4" per foot to a "French Drain" or similar system. Larger Miracle Playstructures may require more than one "French Drain" to allow drainage from the center of the play area to decrease the overall slope.
- Before starting installation, study your Miracle Playstructure layout plan for the correct location of posts, deck heights, and footing information. NOTE: All footing holes are not the same diameter and depth. All deck posts are not the same length.
- Lay out all parts received and separate them by component. All parts have a part number on them that corresponds to the bill of materials list found at the back of the Installation Manual.
- IMPORTANT: Determine the type and appropriate depth of the protective surfacing you will be using.

 SAFETY NOTE

Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall height of the adjacent equipment. (Ref. CPSC Guidelines. Section 10: Surfacing.)

 All deck heights are measured from Finished Grade." (If deck heights are mistakenly measured from sub-grade all slides, steps, transfer points, etc. may be too low.)

- Start your installation with the largest centrally located deck. If the site is not level, determine deck height from lowest grade point.
- Dig footing holes (one deck at a time) to the proper depth and width as shown on the footing layout. Dig footing holes only as you need them, do not leave holes open overnight.
- Place a patio block half, crushed rock, or an equivalent in the bottom of each deck post footing hole, to provide a solid foundation. Allow for this in hole depth.
- Determine deck height and secure VersalokÒ Clamps and deck support brackets before uprighting posts. Do not install self drilling screws until deck is leveled and posts are plumb.

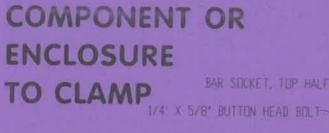


- After decks are attached to the posts, install deck enclosures to help stabilize the deck.
- Use jacks, support stands (model 1000), or bracing to help level and support decks and other components.
- Fill footings with concrete 3"-4" below sub-grade. When the concrete has hardened, backfill all footings and tamp down.
- Be sure to drill out (removing excess PVC) **only** holes in the deck edge that will be used to install a component.
- Re-tapping of threaded inserts may be necessary to remove excess paint.
- Protective surfacing material should be installed the day the equipment installation is completed.
- Add play apparatus such as swing seats, "D" rings and Balance chains only when site
 is ready for children (after the protective surfacing material is in place).

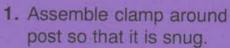
IMPORTANT!!



ASSEMBLY INSERT FOR VERSALOK® II CLAMPS & BAR SOCKET

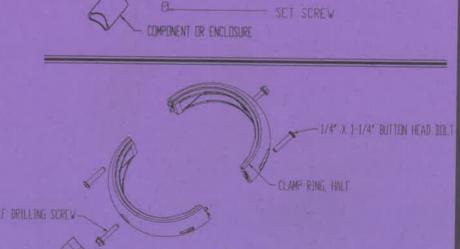


BAR SOCKET, BOTTOM HALF



- 2. Adjust clamp position to set and align component or deck.
- 3. Use 1/4" self drilling screws to secure clamp and support structure. This must be done.

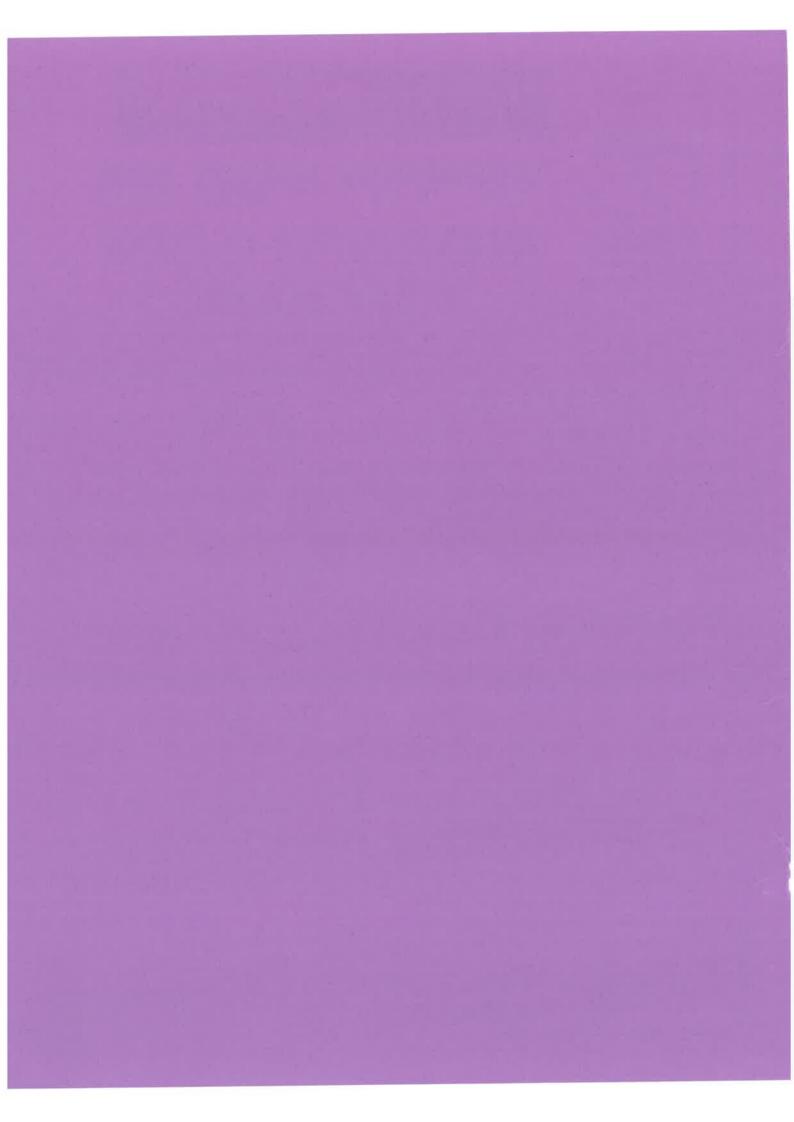
Torque 1/4" BHD bolts in bar socket to 15ft.-lbs. Socket assembly should not be allowed to rotate around clamp.



DECK SUPPORT TO CLAMP

74" X 1-174" BUTTON HEAD BOLL

Important Note: If a post must "share duty" (i.e., support more than one deck at the same height), all deck supports must be slid onto clamp halves before attaching the clamp assembly around the post.





FOOTING DETAILS FOR

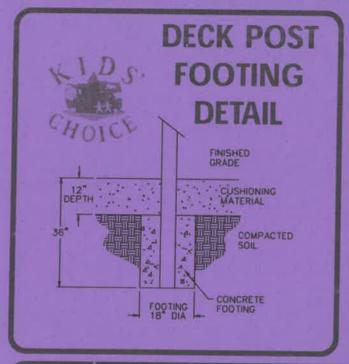


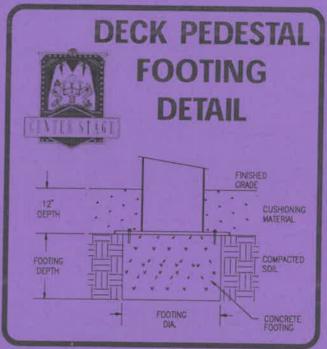
DECKS AND



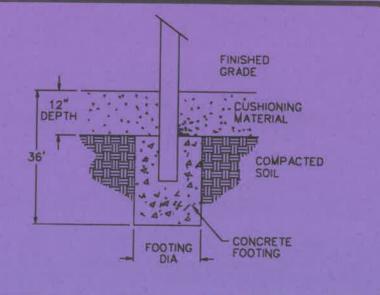
COMPONENTS

April 35, 1992 Rev A

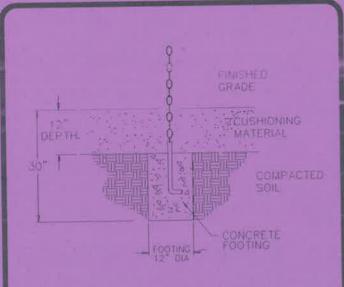




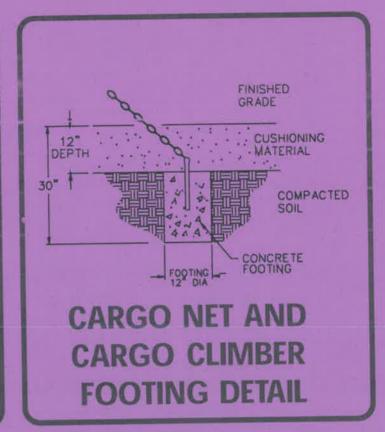
FOOTING DETAIL

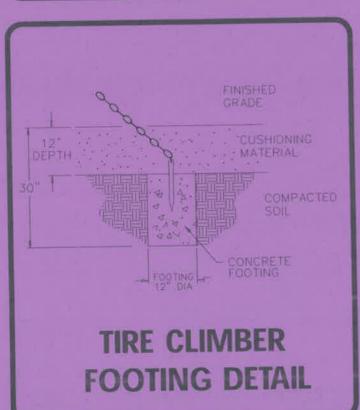


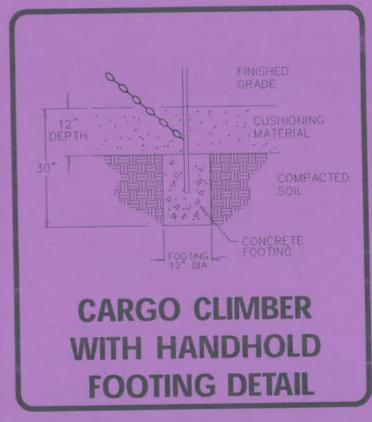
FOOTING DETAILS FOR OTHER COMPONENTS



CHAIN LADDER & CLIMBING ROPE FOOTING DETAIL





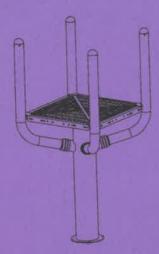




INSTALLATION INSTRUCTIONS

CenterStage[™] Decks for the 714 Playsystem

Angust 19, 1997 Rec. F.



4 Sided (Square) Decks

714-524-3

714-524-4

714-524-5

714-524-6

714-524-8

4 Sided (Square) Decks for

Roof Attachment

714-534-3

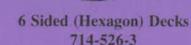
714-534-4

714-534-5

714-534-6

714-534-8





714-526-4

714-526-5

714-526-6

714-526-8

6 Sided (Hexagon) Decks

for

Roof Attachment

714-536-3

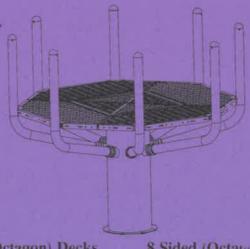
714-536-4

714-536-5

/14-330-3

714-536-6

714-536-8



8 Sided (Octagon) Decks 714-528-3 714-528-4 714-528-5 714-528-6

714-528-8

8 Sided (Octagon) Decks for Roof Attachment

714-538-3 714-538-4

714-538-5 714-538-6

714-538-8

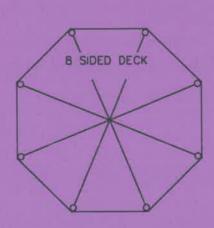
TOP VIEW

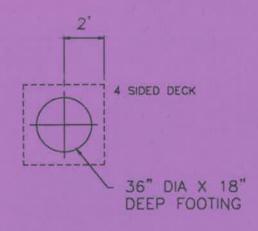
FOOTING TOP VIEW

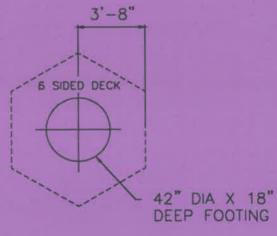


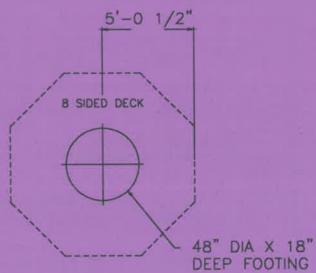












PART I. GENERAL

IMPORTANT: Before installing or erecting this equipment, please read and comply with all applicable recommendations in SAFETY BROCHURE 100 (enclosed). If for some reason this brochure is missing, contact your local Miracle sales representative for a copy.

A. **Ground Space Required:**

4 sided decks - 4' x 4'

6 sided decks - 8' x 8'

8 sided decks - 11' x 11'

B. Concrete:

4 sided decks - .55 cu. yds. 6 sided decks - .62 cu. yds.

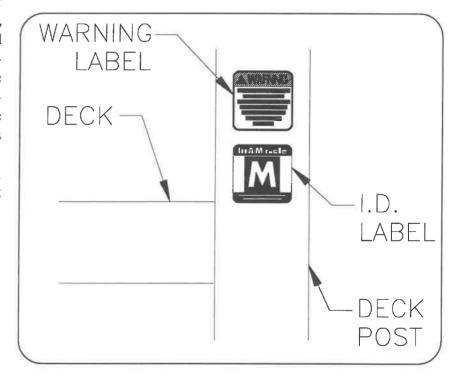
8 sided decks - .70 cu. vds.

PART II. IMPORTANT NOTES AND ASSEMBLY INSTRUCTIONS:

Placement of I.D. and Warning Labels

Both an I.D. label and a Warning label are provided for each deck. For 3' and 5' high decks, place I.D. and

Warning Labels on a post at or near deck access point (stairs, ramp, etc.) at a distance between 3' and 5' from the top of the protective surfacing. For 6'-6" high decks, place labels on pedestal at a distance between 3' and 5' from the top of the protective surfacing if deck access post is unavailable. If deck contains more than one access point, place labels on the access point which will be most frequently used, or on access point which most directly faces the approach from the playground entrance. Each label should be placed on post surface so that it faces the user as he enters the deck.



Application of I.D. and Warning Labels

Prepare surface. Remove any dust, oil, or other alien substance from the label location area on post. Ensure that area is dry. When area is both clean and dry, carefully peel off label from paper backing and place on post so that label is flush and flat to the plane of the post with no wrinkles or tears, with graphic as indicated in label detail.

Maintenance and Replacement of I.D. and Warning Labels

Inspect label regularly. If label should become torn, removed, opaqued or otherwise disfigured, replace label. Replacement labels may be obtained by contacting your local Miracle sales representative.

IMPORTANT:

The top of all deck pedestal footings must be level and at the same height. Deck pedestal footings are to be poured and allowed to cure before beginning system installation. Refer to Footing Top View Drawings for locations and sizes.

IMPORTANT:

Do not pour concrete for component activity footings until <u>all</u> components in your deck system have been installed per installation instructions, leveled, plumbed and braced in position.

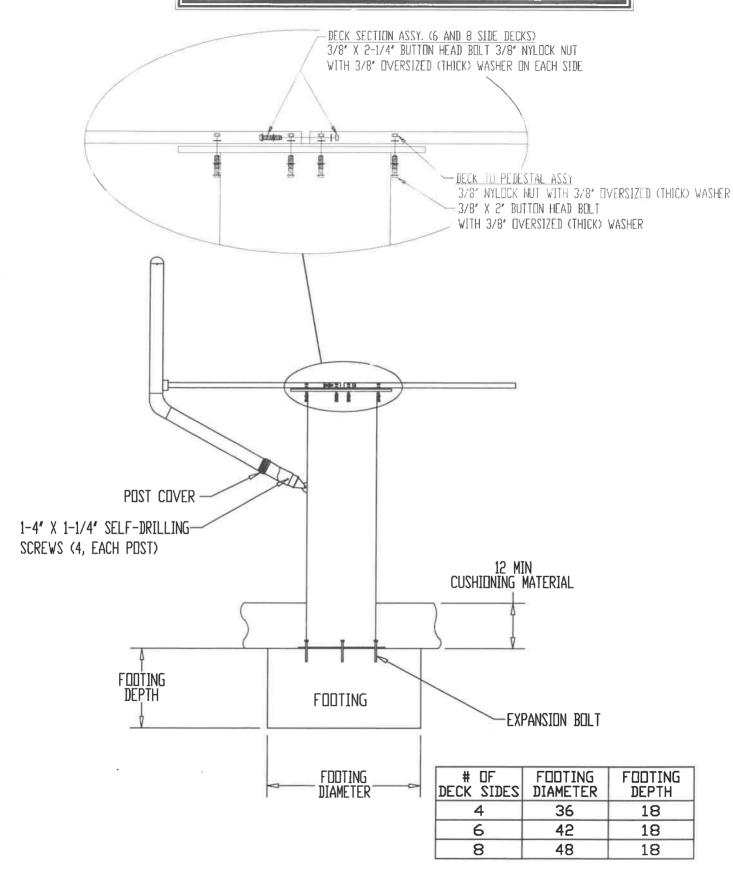
- 1. Before installing or erecting this equipment, please read and comply with all applicable recommendations in Safety Brochure 100 enclosed. If for some reason this brochure is missing, contact your local Miracle sales representative for a copy.
- 2. Before starting construction, check with all utility companies for exact locations of underground utilities.
- 3. When designing areas for footings and the area under and adjacent to all equipment, consideration should be given to soil types and subgrade characteristics. The purchaser and/or installing contractor will be responsible for proper installation and insuring that abnormal and unsafe compaction does not occur in these areas, which are generally recommended to be under and a minimum of 6' out from the edges of all play structures.
- 4. It is the purchaser's responsibility to maintain these areas properly after installation. It is recommended that compaction tests be made several times per year. When compaction occurs, it is recommended that the area affected be scarified or additional pea gravel, sand, redwood bark or coarse wood chips be added until the area is soft and resilient.

Footing Instructions

1. (Refer to *Footing Layout* and *Footing Detail*.) Dig pedestal footing. Pour concrete for the footings, being sure that the top of all deck pedestal footings are level and at the same height. Allow concrete footings to cure.

Refer to Footing Details Installation.

GENERAL INSTALLATION OVERVIEW



Pre-assembly Notes

It is recommended to have support stands, similar to Miracle's Model #1000 for proper assembly of 6 and 8 sided decks. Three (3) support stands are needed for 6 sided decks and four (4) support stands are required for 8 sided decks.

The assembly of CenterStage decks will require 3 people, minimum.

Pre-drill excess pvc from mounting holes along common deck section edges. At this time, do not remove pvc along edges that components mount to.

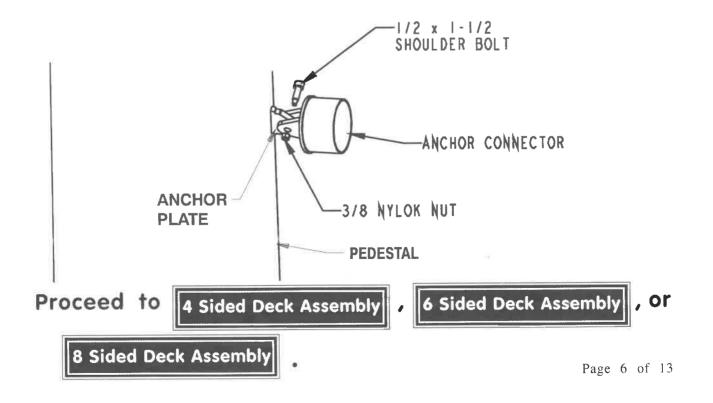
Pedestal Assembly

STEP 1

Position pedestal on concrete footing, round flange to concrete. Shim pedestal base so that pedestal is plumb. Do not anchor pedestal to footing at this point.

STEP 2

Position anchor connectors over anchor plates so that anchor plate is inserted or sandwiched in anchor, aligning holes. Attach anchor to anchor plate by bolting through using a 1/2" x 1-1/2" shoulder bolt with 3/8"-16 thread and a 3/8" Nylock nut. Anchor must be free to pivot. Repeat step for all remaining anchor connectors.



4 Sided Deck Assembly

Refer to GENERAL INSTALLATION OVERVIEW (page 5) as needed.

STEP 1

Place deck on pedestal and align holes in deck with holes in pedestal top plate. Bolt deck to pedestal using 3/8" x 2" button head bolts, a thick washer on both sides, and Nylock nut. Face bolt head downward, toward footing.

Proceed to Post to Deck Assembly

6 Sided Deck Assembly

Refer to GENERAL INSTALLATION OVERVIEW (page 5) as needed.

Place a deck half on pedestal. Loosely bolt deck to pedestal using 3/8" x 2" button head bolts, a thick washer on both sides, and Nylock nut. Face bolt head downward, toward footing.

STEP 2	Support deck and pedestal from tipping by using two (2) support stands
	along outside edge of deck.

STEP 3	Repeat STEP 1 above with remaining half of deck. Use a third su	ıp-
	port stand on second deck half to stabilize.	

STEP 4	Align deck halves so that top surface and outside edge are even. Bolt
	deck halves together using 3/8" x 2-1/4" button head bolts, thick wash-
	ers on each side, and Nylock nuts.

STEP 5	Tighten deck-to-pedestal bolts.
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Proceed to Post to Deck Assembly

8 Sided Deck Assembly

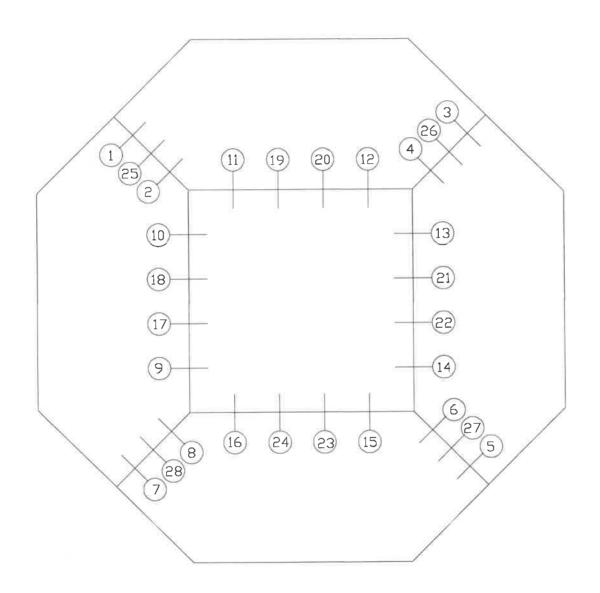
Refer to GENERAL INSTALLATION OVERVIEW (page 5) as needed.

STEP 1	Place square, center deck section on pedestal and align holes in deck with holes in pedestal top plate. Bolt using 3/8" x 2" button head bolt with thick washers on both sides, and Nylock nut. Face bolt head downward, toward footing.
STEP 2	With two or more people, lift and position one outer deck section to center deck section. Hold deck sections in position while another person slides support stand under outer edge of outer deck section to help stabilize. Loosely bolt center section and outer section together using 3/8" x 2-1/4" button head bolts, thick washers on both sides, and Nylock nut.
STEP 3	Support deck and pedestal from tipping by maintaining support stand along outside edge of deck assembly.
STEP 4	Using a second deck section on the opposite side to stabilize, repeat STEP 2 and STEP 3 above.
:	
STEP 5	Repeat STEP 2 and STEP 3 for the two remaining outer deck sections.
STEP 6	Loosely bolt together remaining adjacent deck sections using 3/8" x 2-1/4" button head bolts, thick washers on both sides, and Nylock nut.

Note: At this point, all deck sections should be loosely bolted together. Each outer section should be supported by a support stand.

STEP 7

Tighten bolts in sequence given below. As bolts are tightened, align top surface and outer edges of mating deck sections.



Proceed to

Post to Deck Assembly

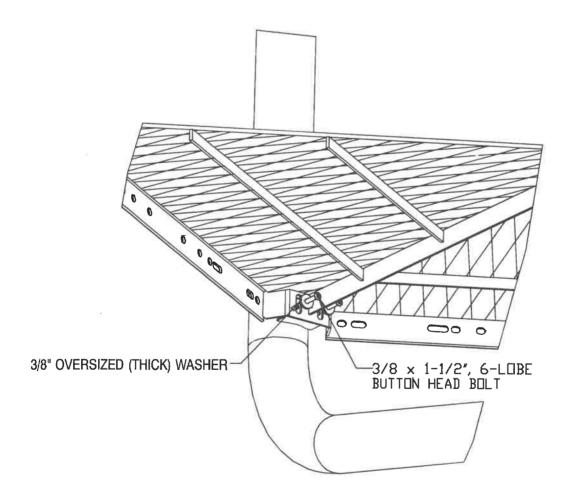
Post to Deck Assembly

STEP 1

Place post cover onto post. <u>Important: Post cover MUST be placed</u> onto post before post is positioned around anchor connector and attached. With post cover positioned on post, place post around anchor connector inserting sleeve portion of anchor connector into end of post. Repeat step for all remaining posts. <u>Do not attach posts to anchor connectors with self drilling screws at this time</u>.

STEP 2

Loosely bolt post to deck using two 3/8" x 1-1/2" button head bolts and 3/8" thick washers. The post has a flange nut to receive bolt.



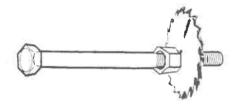
Note: Do not bolt posts to anchors at this point.

STEP 3 for 4 Sided	Plumb posts and tighten 3/8" button head bolts. Attach posts to anchors using 4 (four) 1/4" self-drilling screws.			
Decks	Proceed to STEP 7.			
STEP 3 for 6 & 8 Sided Decks	Level deck and plumb posts one deck section at a time. Place a level on deck near the post and adjust deck section until level. Place support stand under deck section near post to hold position. Repeat leveling procedure for each remaining post on that section (3 posts per section for 6 sided deck; 2 posts per section for 8 sided deck). With deck section level, plumb each post and tighten 3/8" x 1-1/2" button head bolts.			
STEP 4	Attach posts to anchor using 4 (four) 1/4" self-drilling screws.			
STEP 5	Remove support stands.			
STEP 6	Repeat STEP 3, 4, & 5 for each remaining deck section.			
STEP 7	Recheck levels and adjust as needed.			
STEP 8	Slide post covers firmly against pedestal and attach to post using 2 (two) 1/4" x 1-1/4" self-drilling screws.			
STEP 9	Orient and align deck as specified in layout. Connect deck-to-deck components, if any, to establish deck spacing.			
STEP 10	Using the holes in the pedestal base as a guide, drill 1/2" diameter holes 6" deep using a 1/2" masonary drill bit. Do not allow the bit to wobble or wander. Blow the holes completely clean and free of dust. With nut and washer in place, drive 1/2" x 6" concrete expansion bolt into each hole. Tighten nuts fully.			

FINAL STEP

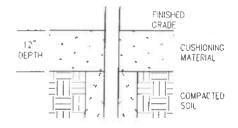
Make sure all fasteners are tight.

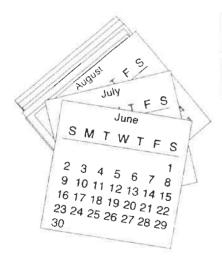




Trim all bolts. No more than two threads may protrude after trimming by installer.

Install 12" of cushioning material in and around the area required for the unit.







Establish a regular maintenance schedule, checking for loose or missing bolts, worn parts, etc.



INSTALLATION

Model 714-501 & 714-501F*: (3) Opening Tri-Deck

Model 714-502 & 714-502F*; (4) Opening Square Deck

Model 714-503 & 714-503F*: 1/2 Hex Deck (full)

Model 714-504 & 714-504F*: 1/2 Hex Deck (open)

Model 714-505; Parallelogram Deck (full)

Model 714-506: Parallelogram Deck (1/2 open)

* indicates (CSA/NFS)

Model 714-507: Parallelogram Deck (open)

Model 714-508; Rectangle Deck (full)

Model 714-509: Rectangle Deck (1/2 open) Model 714-510: Rectangle Deck (open)

714-585

714-586

Model 714-583: Arch for 3' Deck

Model 714-585: Arch for 5' Deck

Model 714-586: Arch for 6' Deck

714-501 714-502 714-501F



714-503 714-504

714-503F 714-504F

714-505



714-508

714-509 714-510

714-551 714-542 714-552 714-572 714-543 714-553 714-573

714-544 714-554 714-574

714-556

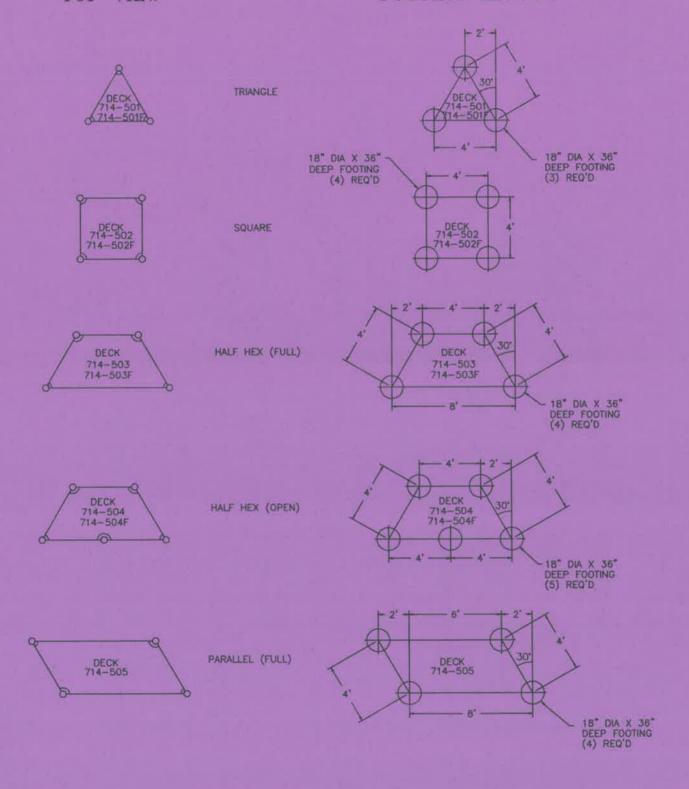
714-583

714-585

714-586

TOP VIEW

FOOTING LAYOUT



TOP VIEW FOOTING LAYOUT 6' -2' 30° PARALLEL (1/2 OPEN) DECK 714-506 DECK 714-506 0 18" DIA X 36" DEEP FOOTING (5) REQ'D 2' + 2' -2'-30° PARALLEL (OPEN) DECK 714-507 DECK 714-507 18" DIA X 36" DEEP FOOTING (6) REQ'D 8' -DECK 714-508 RECTANGLE (FULL) DECK 714-508 18" DIA X 36" DEEP FOOTING (4) REQ'D 8' RECTANGLE (HALF OPEN) DECK 714-509 DECK 714-509 0 18" DIA X 36" DEEP FOOTING (5) REQ'D 0 RECTANGLE (OPEN) DECK 714-510 DECK 714-510 0 18" DIA X 36" DEEP FOOTING (6) REQ'D

Page 3 of 8

PART I - GENERAL

A. Ground Space Required:

(3) sided deck	Models 714-501 & 714-501F	6.9 sq. ft.
(4) sided deck	Model 714-502 & 714-502F	16 sq. ft.
1/2 hex deck	Models 714-503, 714-503F, 714-504, & 714-504F	20.8 sq. ft
Parallelogram deck	Models 714-505, 714-506, 714-507	27.7 sq. ft.
Rectangular deck	Models 714-508, 714-509, 714-510	32 sq. ft.

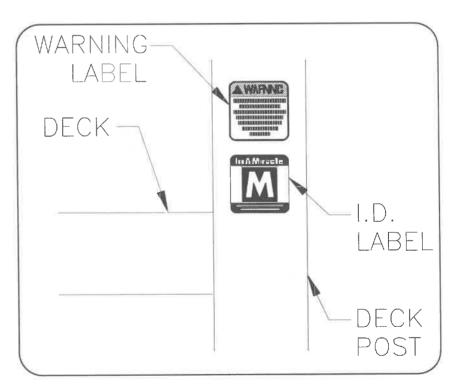
B. Concrete required:

Each deck post (or archway leg) requires .125 cubic yard

PART II - FOOTING AND ASSEMBLY INSTRUCTIONS

PLACEMENT OF I.D. AND WARNING LABELS

Both an I.D. label and a Warning label are provided for each deck. Place I.D. and Warning Labels on a post (or arch leg) at or near deck access point (stairs, ramp, etc.) at a distance between 3' and 5' from the top of the protective surfacing. If deck contains more than one access point, place labels on the access point which will be most frequently used, or on access point which most directly faces the approach from the playground entrance. Each label should be placed on post surface so that it faces the user as he enters the deck.



Application of I.D. and Warning Labels

Prepare surface. Remove any dust, oil, or other alien substance from the label location area on post. Ensure that area is dry. When area is both clean and dry, carefully peel off label from paper backing and place on post (or arch leg) so that label is flush and flat to the plane of the post with no wrinkles or tears, with graphic as indicated in *Label Detail*.

Maintenance and Replacement of I.D. and Warning Labels

Inspect label regularly. If label should become torn, removed, opaqued or otherwise disfigured, replace label. Replacement labels may be obtained by contacting your local Miracle sales representative.

Important Notes:

- 1. Before installing or erecting this equipment, please read and comply with all applicable recommendations in Safety Brochure 100 enclosed. If for some reason this brochure is missing, contact your local Miracle sales representative for a copy.
- 2. Before any construction is begun, check with all utility companies for exact location of underground utilities.
- 3. When designing areas for footings and the area under and adjacent to all equipment, consideration should be given to soil types and subgrade characteristics. The purchaser and/or installing contractor is responsible for proper installation and insuring that abnormal and unsafe compaction does not occur in these areas, which are generally recommended to be under and a minimum of 6'-0" out from the edges of all play structures.
- 4. It is the purchaser's responsibility to maintain these areas properly after installation. It is recommended that compaction tests be made several times per year. When compaction occurs, it is recommended that the area affected be scarified or additional pea gravel, sand, redwood bark or coarse wood shavings be added until the area is soft and resilient.

A. Footing Instructions:

1. The deck footings are 18" in diameter by 36" deep from top of finished surfacing and 4'-0" apart center to center. (See footing detail.)

Refer to Footing Details Installation.

Note: Miracle suggests before pouring concrete, to have the unit entirely assembled, leveled, plumbed and blocked, if necessary, so only one pouring is required.

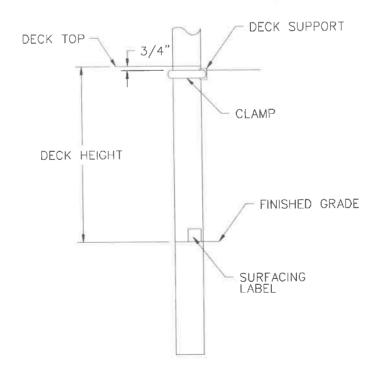
B. Assembly Instructions:

Note: Deck posts (and arches) must be ordered separately from the decks. One arch functions as two deck posts.

1. Refer to footing layout and set a deck post into each one of the deck footings. Slide a deck support for each deck corner supported by a common clamp onto a clamp assembly half. Position first clamp half with a second clamp half around each one of the deck posts. Fasten clamp halves together and to posts using 1/4" x 1-1/4" self drilling screws. The clamps should be installed so that the top of the clamp is approximately 3/4" below the intended deck height. (Note the label at 36" from the bottom of the post which indicates the top of the finished surface.) Orient the deck support toward the deck center.

Refer to *Versa-Lok® Clamp Assembly* Installation.

Important Note: The legs of the arch posts may vary slightly in length. When setting arches in footings, always measure 36" from the end of the shortest leg to determine the exact depth of both footings and the protective surface level of both legs. Use this determination as a reference for deck and protective surfacing heights rather than the labels.



- 2. Drill 1/2" diameter holes through the PVC coating at the deck corner mounting hole.
- 3. Rest the deck on the clamps. Plumb and block up your posts and make sure your deck height is correct and that it is level. Align the deck support mounting hole with the deck corner mounting hole and attach with a 1/2" x 1-1/4" button head bolt and flat washer.
- 4. Square, plumb, and level the deck assembly.
 - a. When installing deck sections which share a long side (at the same height) without a middle post, drill PVC from the corresponding holes in the long side edge angle and fasten with 4 (four) 1/2" x 2-1/4" 6-lobe button head bolts, flat washers, lock washer and nylock nut. Trim and smooth any bolt threads that project more than (2) threads past nut.
 - b. Deck section which share a 4'-0" side at the same or varying heights attach to common posts per instructions 1, 2, and 3 above. Deck to deck fastening on a common 4'-0" side is not necessary.

FINAL STEP

Refer to Final Assembly Installation.

PARTS LIST

YOU WILL RECEIVE A COMBINATION OF THE FOLLOWING DECK POSTS/ARCHES OPTIONS. PLEASE CONSULT YOUR INDIVIDUAL TOP VIEW AND FOOTING LAYOUT DRAWINGS TO DETERMINE THE TYPE AND LOCATION OF EACH DECK POST OR ARCH.

STEEL COMPONENTS

OF)
OF)
OF)
)

ALUMINUM COMPONENTS

MODEL	PART NO.	DESCRIPTON
714-551-2	713593P	106" DECK POST
714-552-2	713594P	136" DECK POST
714-553-2	713595P	160" DECK POST
714-554-2	713599P	178" DECK POST
714-542-2	713585P	136" DECK POST (HEX ROOF)
714-543-2	713586P	160" DECK POST (HEX ROOF)
714-544-2	713587P	178" DECK POST (HEX ROOF)
714-572-2	713589P	144" DECK POST (SQUARE ROOF)
714-573-2	713590P	168" DECK POST (SQUARE ROOF)
714-574-2	713591P	186" DECK POST (SQUARE ROOF)

Overhead Climber Components Model 714-863-5: Horizontal Ladder

Model 714.557-50-19-0

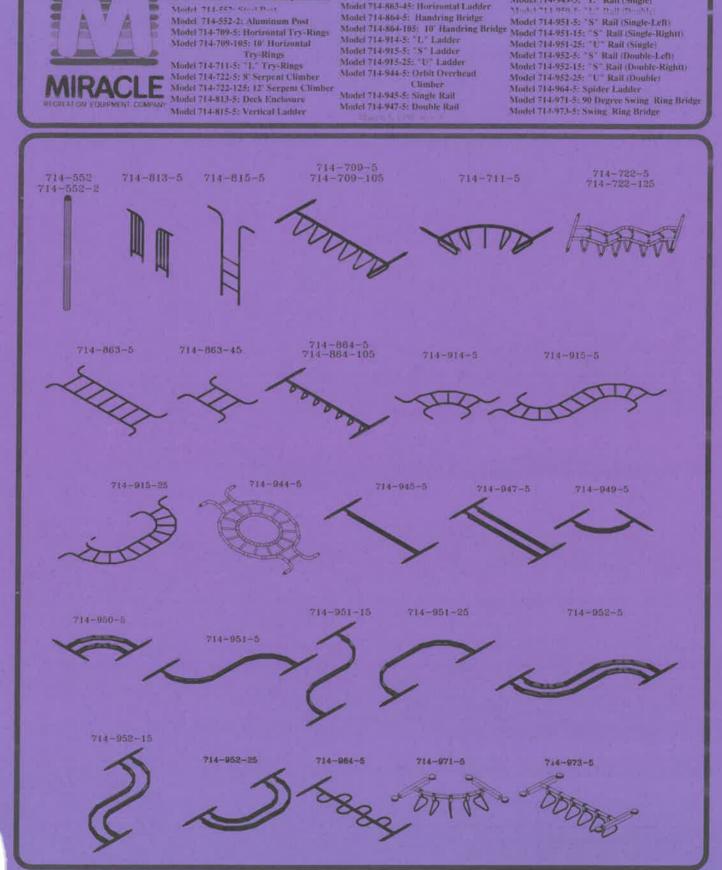
Model 714-552-2: Aluminum Post Model 714-709-5; Horizontal Try-Rings Model 714-709-105; 10' Horizontal

Model 714-709-105: 16 Transmin Try-Rings Model 714-711-5: "L" Try-Rings Model 714-722-5: 8' Serpent Climber Model 714-722-125: 12' Serpent Climber Model 714-813-5; Deck Enclasure

Model 714-815-5: Vertical Ladder

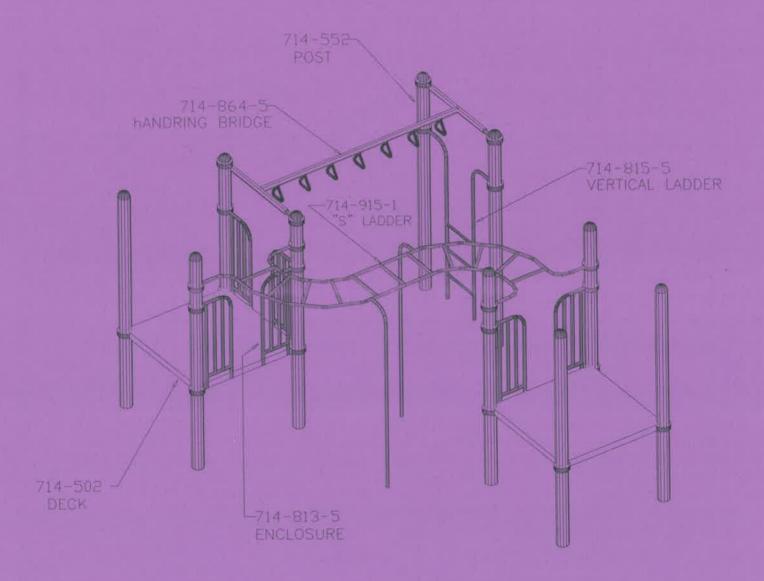
Model 714-863-45: Horizontal Ludder

Model 714-949-5; "L" Rail (Single) Model 714-950 5; "L" Bull (Doubl)



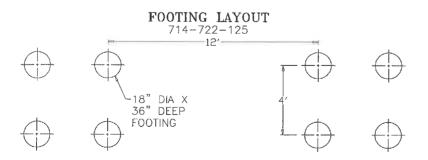
Note: The following overhead climber models may not be used in series: 714-709-5, 714-711-5, 714-864-5, 714-971-5, and 714-973-5. All others may be used in series and must have rung model 714-814-5 for transition between components.

SAMPLE OVERHEAD CLIMBER INSTALLATION



Important Note: Components MUST be ordered separately as shown.

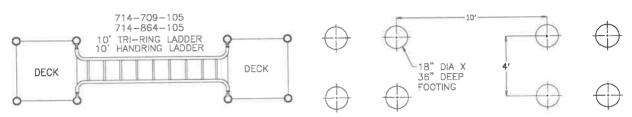
TOP VIEW FOOTING LAYOUT MODELS SHOWN 714-552, 714-813-5 714-815-5, 714-863-5 8 -18" DIA X 36" DEEP FOOTING 714-863-5 HORIZONTAL LADDER 714-552 POST -†6" DECK 714-815-5 -12" DIA X 30" DEEP FOOTING VERTICAL DECK ENCLOSURE LADDER FOOTING LAYOUT MODELS WITH SAME FOOTING DIMENSIONS 714-709-5, 714-722-5, 714-864-5, 714-945-5 714-944-5, 714-947-5, 714-964-5, 714-973-5 -8'-714-863-5 HORIZONTAL LADDER -18" DIA X 36" DEEP DECK DECK FOOTING TOP VIEW FOOTING LAYOUT 714-863-45 HORIZONTAL LADDER -18" DIA X 36" DEEP FOOTING DECK DECK TOP VIEW 714-722-125 SERPENT CLIMBER DECK DECK



TOP VIEW

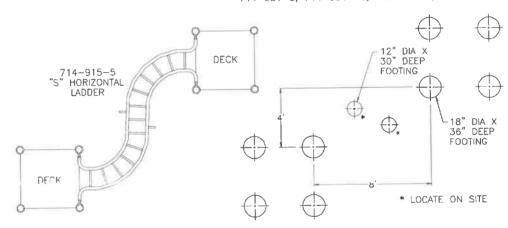
FOOTING LAYOUT

714-709-105 & 714-864-105

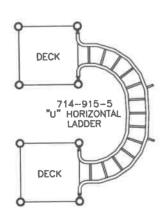


TOP VIEW

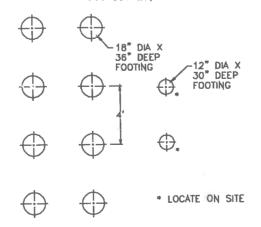
FOOTING LAYOUT
MODELS WITH SAME FOOTING DIMENSIONS
714-951-5, 714-951-15, 714-952-15



TOP VIEW



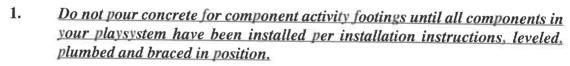
MODELS WITH SAME ROOMING DIMENSIONS 714-951-25, 714-952-25

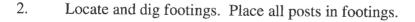


IMPORTANT NOTES

- 1. Before installing or erecting this equipment, please read and comply with all applicable recommendations in Safety Brochure 100 enclosed. If for some reason this brochure is missing, contact your local Miracle sales representative for a copy.
- 2. Before starting construction, check with all utility companies for exact locations of underground utilities.
- 3. When designing areas for footings and the area under and adjacent to all equipment, consideration should be given to soil types and subgrade characteristics. The purchaser and/or installing contractor will be responsible for proper installation and insuring that abnormal and unsafe compaction does not occur in these areas, which are generally recommended to be under and a minimum of 6' out from the edges of all play structures.
- 4. It is the purchaser's responsibility to maintain these areas properly after installation. It is recommended that compaction tests be made several times per year. When compaction occurs, it is recommended that the area affected be scarified or additional pea gravel, sand, redwood bark or coarse wood chips be added until the area is soft and resilient.

FOOTINGS





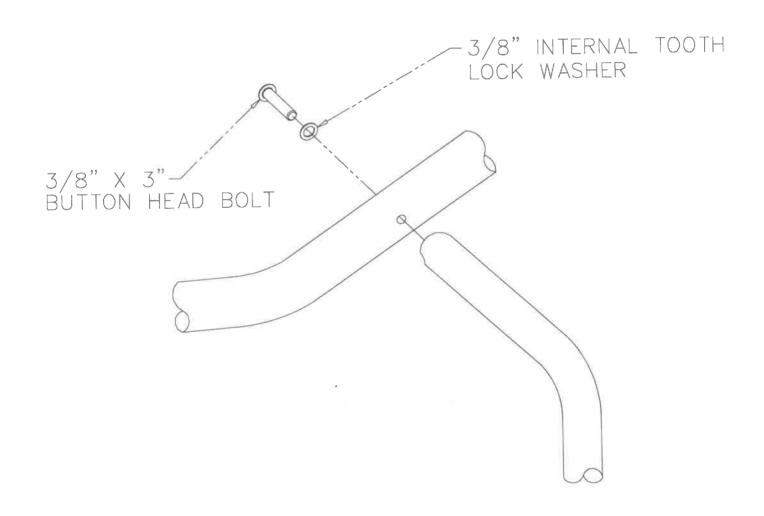
Refer to Footing Details Installation.



LEG PRE-ASSEMBLY

PRE-ASSEMBLY STEP

(Perform this step before proceeding further.) Attach support legs to main assembly.



For general instructions for Horizontal and Inclined Climbers, refer to steps 1 through 4 following:

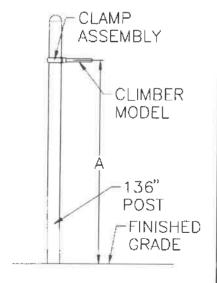
STEP 1.	Insert ends of crossbars into bar sockets.

STEP 2. Position clamp assemblies to posts at required distances and attach header to posts (placing any support legs in footings).

Refer to *Versa-Lok® Clamp Assembly* Installation.

STEP 3. Level the climber assembly. Straight 8' end climbers may be inclined (not to exceed 12", end to end).

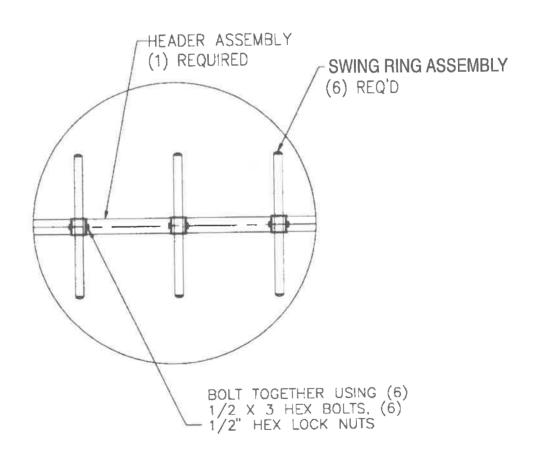
STEP 4. Tighten all fasteners.



MOUNTING HEIGHT INFORMATION					
CLIMBER MODEL	MAXIMUM HEIGHT DIMENSION A				
714-863-5, 714-863-45, 714-914-5, 714-964-5, 714-915-5, 714-915-25 714-944-5	84"				
714-951-5, 714-951-15, 714-951-25, 714-952-5, 714-952-15, 714-952-25, 714-945-5, 714-947-5, 714-949-5, 714-950-5	87"				
714-864 & 714-864-105	96"				
714-709-5, 714-709-105, 714-711-5, 714-971-5, 714-973-5, 714-922-5 714-922-125	98"				

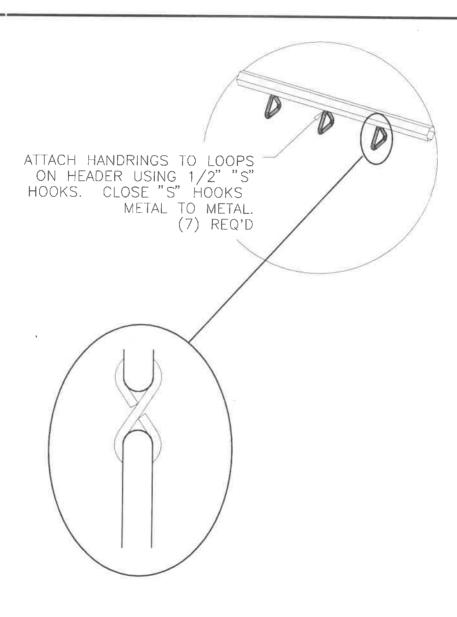
For Swing ring models only, refer to steps 5a and 5b following:

STEP 5.a.	Align holes in swing ring header hangers with bushings in swing ring handhold assembly and insert bolt through hole and bushings.
	Thread nut and tighten to snug; so that swing ring pivots freely. Repeat for all swing ring handholds.



For handring models only, refer to step 5 following:

Attach a large "S" hook to each of the handrings. Attach the handrings to each one of the wire "U" forms on the beam assembly. Be sure to close the "S" hooks metal to metal.



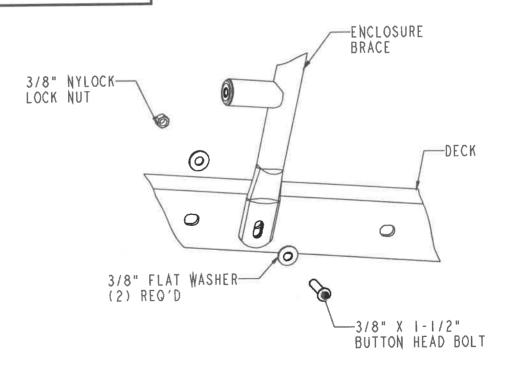
For models with enclosure assembly, refer to steps 6a. through 6c. following:

STEP 6a. Remove any obstructing PVC from the mating deck holes.

STEP 6b. Attach enclosure to posts at 38" above deck.

Refer to $Versa-Lok^{\circledR}$ Clamp Assembly Installation.

STEP 6c. Attach enclosure to deck.



For models without vertical climbers, proceed to FINAL STEP.

For Vertical Climber models assembly, refer to steps 7a. through

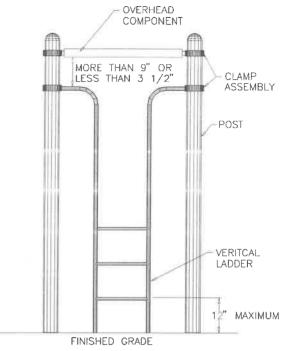
7c. following:

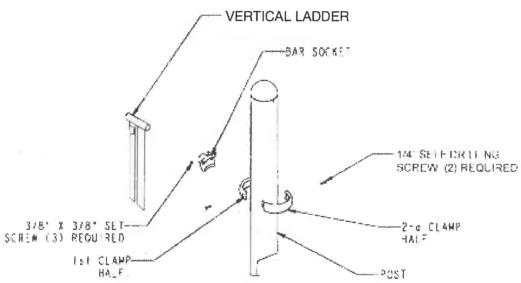
STEP 7a.

Place legs in footings.

STEP 7b.

Plumb and make vertical.





ASSEMBLE POST CLAMPS AND BAR SOCKET TOGETHER AS SHOWN JSING THE VERTICAL LADDER TO LOCATE HEIGHT AND ROTATION

STEP 7c.

Attach ladder to posts so that bottom rung is no greater than 12" above above finished surface.

FINAL STEP

Refer to Final Assembly Installation.

		•



Model 714-555: Fence Post

Model 714-555-2: Aluminum Fence Post

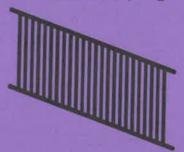
Model 714-577-4: 4' Fence section Model 714-577-8: 8' Fence section Model 714-578: Archway for Fence

July 22, 1997 Rev. D.

714-555



714-577-8



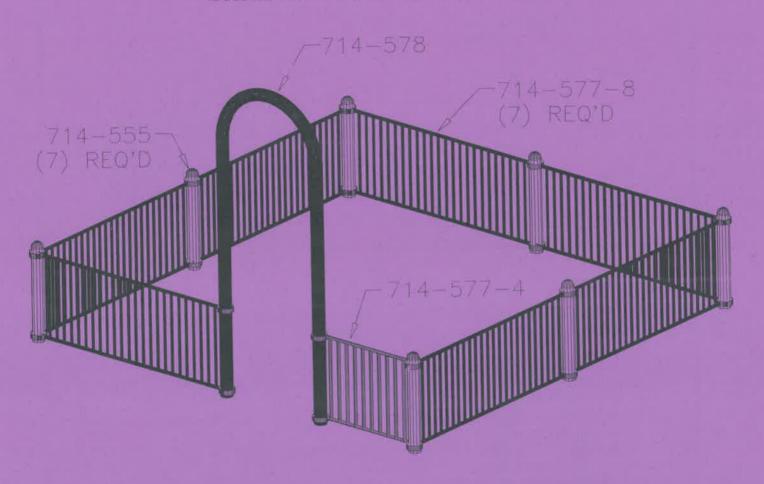
714-578



714-577-4

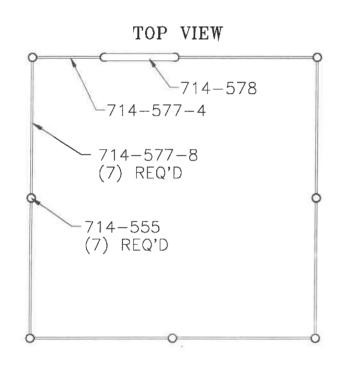


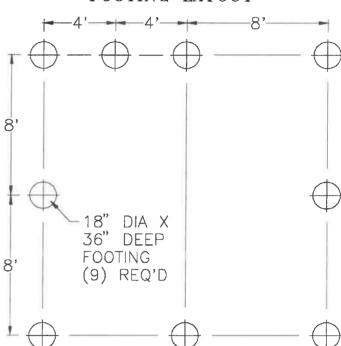
SAMPLE FENCE SYSTEM



SAMPLE FENCE SYSTEM

FOOTING LAYOUT





NOTE: SYSTEM SHOWN IS FOR LEVEL GROUND. IF FENCE SYSTEM IS INSTALLED OVER A SLOPED AREA FENCE SECTIONS MAY NEED TO BE OFFSET. AT OFFSET FENCE POSTS, EXTRA CLAMP RINGS WILL BE REQUIRED. MODEL 714-500 (TWO CLAMP RINGS) IS REQUIRED AT EACH OFFSET FENCE POST.

IMPORTANT NOTES

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- 2. Before starting construction, check with all utility companies for exact locations of underground utilities.
- 3. When designing areas for footings and the area under and adjacent to all equipment, consideration must be given to soil types and subgrade characteristics. The purchaser and/or installing contractor will be responsible for proper installation and insuring that abnormal and unsafe compaction does not occur in these areas, which are recommended to be under and a minimum of 6' out from the edges of all play structures. *Note:* The fence (and related components) is not playground equipment and protective surfacing to 6' from the fence is not required. However, this does not permit the exclusion of protective surfacing which is required for playground equipment whose 6' protective surfacing area may intersect that of the fence.
- 4. It is the purchaser's responsibility to maintain these areas properly after installation. It is recommended that compaction tests be made several times per year. When compaction occurs, it is recommended that the area affected be scarified or additional pea gravel, sand, redwood bark or coarse wood chips be added until the area is soft and resilient.

FOOTINGS

- 1. Do not pour concrete for component activity footings until all components in your deck system have been installed per installation instructions, leveled, plumbed and braced in position.
- 2. (Refer to *Footing Layout*.) Dig the footings and place posts (and/or archway).

Refer to *Footing Details* Installation.

Important Note: The legs of the arch posts may vary slightly in length. When setting arches in footings, always measure 36" from the end of the shortest leg to determine the exact depth of both footings and the protective surface level of both legs. Use this determination as a reference for component and protective surfacing heights rather than the labels.

(Refer to Sample Fence System illustration as needed.)

STEP 1

Slide a bar socket (for each fence section component supported by a common clamp) onto a clamp half. Insert the ends of the top rail of the component into the bar sockets.

Refer to $Versa-Lok^{\circledR}$ Clamp Assembly Installation.

STEP 2

Repeat step #1a. for the bottom rails of the component. Raise the component into the opening between the posts and position the top of the panel to 38" above the ground. Position each clamp assembly around one of the posts (or archway legs if connecting to the archway) and attach. (Important Note: If a post must "share duty" (i.e., support more than one component), all bar sockets and deck supports must be slid onto clamp halves before attaching the clamp assembly around the post.)

FINAL STEP

Refer to Final Assembly Installation.



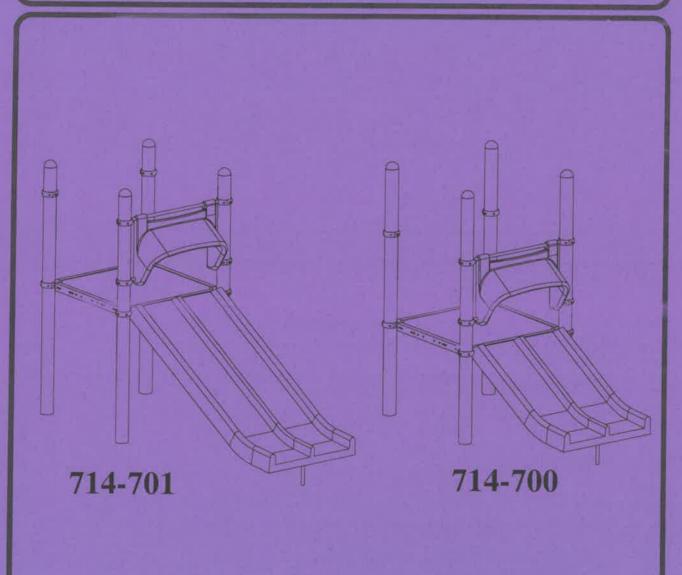


Side by Side Slides

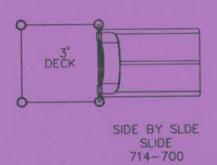
with Wide Slide Transition Sit-Down Canopy

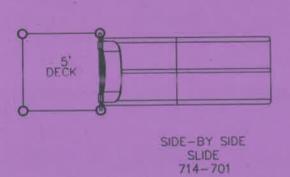
Model 714-700: from 3' Deck Model 714-701: from 5' Deck

April 2, 1998 Rev. D

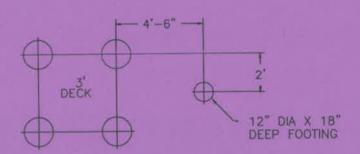


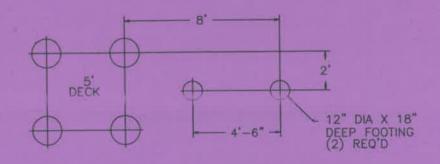
TOP VIEW





FOOTING LAYOUT





IMPORTANT NOTES

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- 2. Before starting construction, check with all utility companies for exact locations of underground utilities.
- 3. When designing areas for footings and the area under and adjacent to all equipment, consideration should be given to soil types and subgrade characteristics. The purchaser and/or installing contractor will be responsible for proper installation and insuring that abnormal and unsafe compaction does not occur in these areas, which are generally recommended to be under and a minimum of 6' out from the edges of all play structures.
- 4. It is the purchaser's responsibility to maintain these areas properly after installation. It is recommended that compaction tests be made several times per year. When compaction occurs, it is recommended that the area affected be scarified or additional pea gravel, sand, redwood bark or coarse wood chips be added until the area is soft and resilient.

FOOTINGS



Dig the footings and place posts.

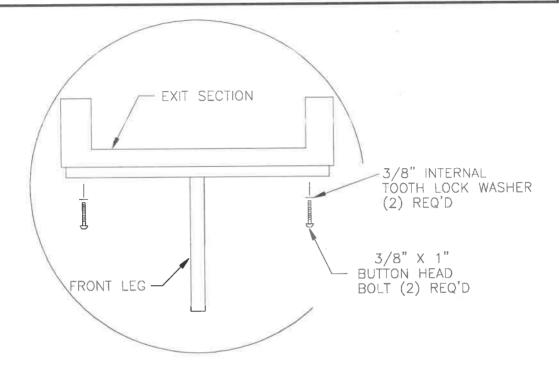
Refer to Footing Details Installation.



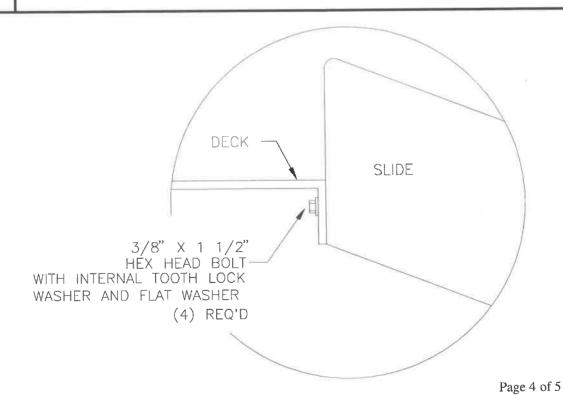
Note: Do not pour concrete for footings until all components in your deck system have been installed per installation instructions, leveled, plumbed and braced in position.

STEP 1

Fasten the front leg to the slide bottom (and the mid-leg if assembling Model 714-701). Position slide against the deck edge and set leg in footing hole.



STEP 2 Ensure that the bedway entrance region is flush with the deck and attach.



Side By Side Slides with Wide Slide Transition Sit-Down Canopy

April 2, 1998 Rev. D

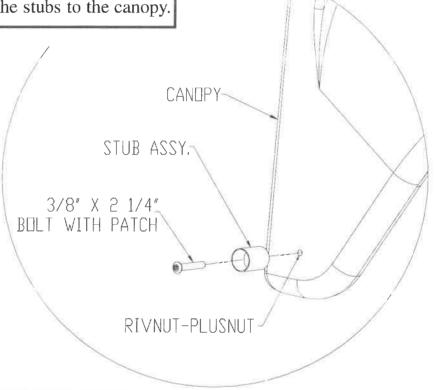
STEP 3

Set the height of the slide exit from the top of the protective surface.

Note: For slides from decks of 4 feet in height or less, the height of the exit region should be no more than 11 inches from the protective surface. For slides from decks that are over 4 feet in height, the height of the exit region should be at least 7 inches but not more than 15 inches above the protective surface. Be sure that exit region maintains enough of a slant to insure water drainage.

STEP 4

Attach the stubs to the canopy.



STEP 5

Insert handhold bar into canopy.

STEP 6

Attach handhold bar and stubs to posts with top clamps at 38" above deck surface.

Refer to $Versa-Lok^{\circledR}$ Clamp Assembly Installation.

STEP 7

Tighten all set screws to secure bar sockets and canopy supports.

FINAL STEP

Refer to *Final Assembly* Installation.



IMAGINATION PANELS

714-714-1: Park Ranger

714-714-2: Fire Truck

714-714-3: Police

714-714-4: Train

714-714-5: Taxi

714-715-1: Alphabet

714-715-2: Maze Finger

714-715-3: Jump (3' Deck)

714-715-4: Calculator

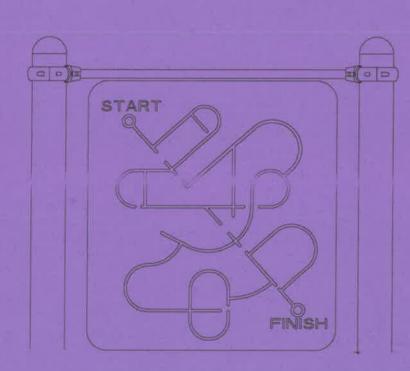
714-715-6: Bus Stop

DON'T RESIDENT RESIDE.

714-732; Welcome (5-12)

714-732-1: Welcome (2-5) 714-732-2: Welcome (2-12)

714-715-5: Jump (5' Deck)



714-714-1

714-714-2

714-714-3

714-714-4

714-714-5

714-715-1

714-715-2 (shown)

714-715-3

714-715-4

714-715-5

714-715-6

714-732

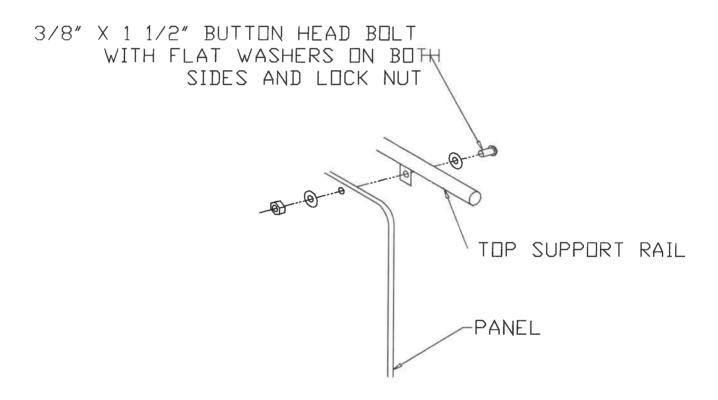
714-732-1

714-732-2

IMPORTANT NOTES

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STEP 1 Attach panel support rail to panel.



STEP 2

Insert each rung end into a bar socket and slide bar socket onto clamp half.

STEP 3

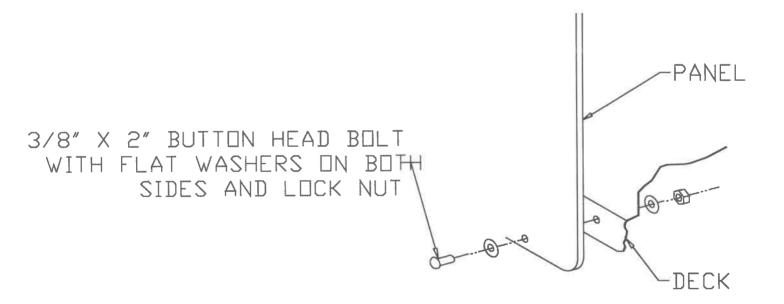
Attach each clamp assembly around one of the posts with center of clamps at 38" above deck surface, securing enclosure and bar sockets with set screws.

Refer to $Versa-Lok^{\circledR}$ Clamp Assembly Installation.

(Important Note: If a post must "share duty" (i.e., support more than one component), all bar sockets and deck supports must be slid onto clamp halves before attaching the clamp assembly around the post.)

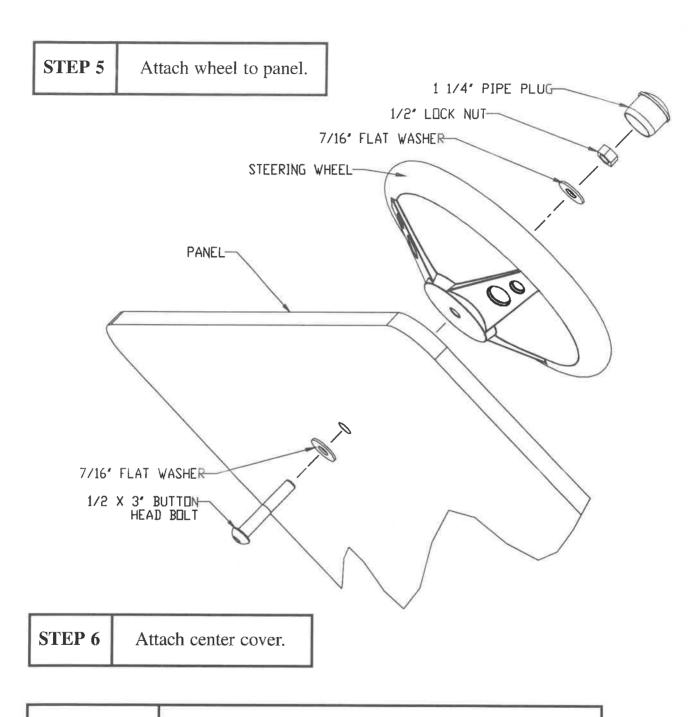
STEP 4

Attach bottom of panel to deck. (Remove any obstructing pvc from the corresponding bolt holes and bolt the bottom of the panel to the face of the deck.



For models without steering wheel, proceed to FINAL STEP.

For models with steering wheel, proceed to steps 5 and 6 following:



FINAL STEP | Refer to *Final Assembly* Installation.



PANEL MODELS

714-716: View Groove

714-875: Bubble

714-875-30: Look-Out

714-904: Clock

714-923: Color Ball

714-924: Letter Ball

714-925: Number Ball

714-980-4: Convex Mirror

714-980-5: Flat Mirror

714-982-2: Number Finger Maze

714-982-3: Finger Maze

714-982-4: Letter Finger Maze

714-983-1: Marble Race

714-983-2: Motor Skill

February 10, 1997 Res. F



714-875



714-904



714-716



714-923



714-924



714-925



714-980-4 714-980-5



714-982-2



714-982-3



714-982-4



714-983-2



714-983-1



714-875-30

Page 2 of 6

PANEL MODELS

0- 10 mm 2 mm 2 mm	THE PERSON	
714-716: View Groove	714-980-4:	Convex Mirror
714-875: Bubble	714-980-5:	Flat Mirror
714-875-30: Look-Out	714-982-2:	Number Finger Maze
714-904: Clock	714-982-3:	Finger Maze
714-923: Color Ball	714-982-4:	Letter Finger Maze
714-924: Letter Ball	714-983-1:	Marble Race
714-925: Number Ball	714-983-2:	Motor Skill
4.4	2002 ALL A	

February 10, 1997 Rev. F

IMPORTANT NOTES

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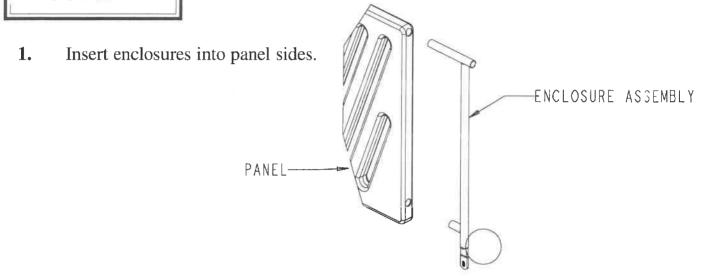
PANEL MODELS

714-716: View Groove 714-980-4: Convex Mirror 714-875: Bubble 714-980-5: Flat Mirror 714-875-30: Look-Out 714-982-2: Number Finger Maze 714-904: Clock 714-982-3: Finger Maze 714-923: Color Ball 714-982-4: Letter Finger Maze

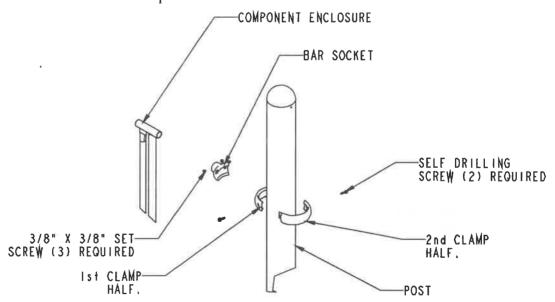
714-924: Letter Ball 714-983-1: Marble Race 714-925: Number Ball 714-983-2: Motor Skill

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ASSEMBLY



2. Position enclosures onto posts.



ASSEMBLE POST CLAMPS AND BAR SOCKET TOGETHER AS SHOWN USING THE COMPONENT ENCLOSURE TO LOCATE HEIGHT AND ROTATION.

714-716: View Groove 714-980-4: Convex Mirror 714-875: Bubble 714-980-5: Flat Mirror

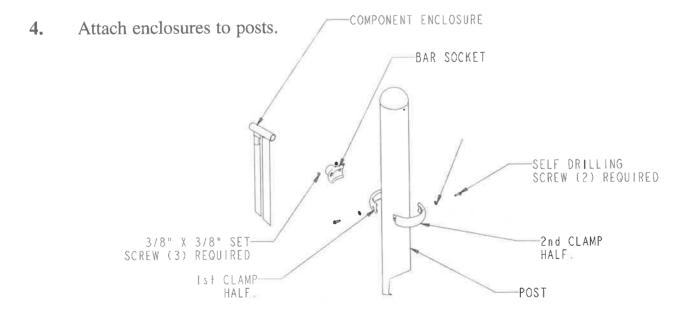
714-875-30: Look-Out 714-982-2: Number Finger Maze

714-904: Clock 714-982-3: Finger Maze

714-923: Color Ball 714-982-4: Letter Finger Maze 714-924: Letter Ball 714-983-1: Marble Race 714-925: Number Ball 714-983-2: Motor Skill

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ASSEMBLY ENCLOSURE BRACE 3/8" NYLOCK-0 LOCK NUT Attach enclosures to deck. 3. DECK (0)0 (0) 3/8" FLAT WASHER (2) REQ'D 3/8" X 1-1/2" BUTTON HEAD BOLT



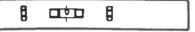
ASSEMBLE POST CLAMPS AND BAR SOCKET TOGETHER AS SHOWN USING THE COMPONENT ENCLOSURE TO LOCATE HEIGHT AND ROTATION.

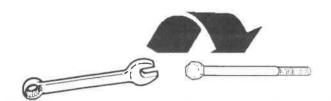
714-716: View Groove	714-980-4:	Convex Mirror
714-875: Bubble	714-980-5:	Flat Mirror
714-875-30: Look-Out	714-982-2:	Number Finger Maze
714-904: Clock	714-982-3:	Finger Maze
714-923: Color Ball	714-982-4:	Letter Finger Maze
714-924: Letter Ball	714-983-1:	Marble Race
714-925: Number Ball	714-983-2:	Motor Skill

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FINAL ASSEMBLY

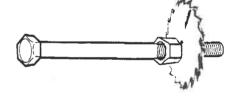
4. Plumb and level the assembly.

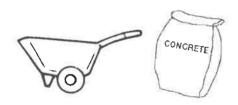




Make sure all fasteners are tight.

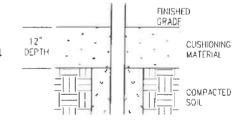
Trim all bolts. No more than two threads may protrude after trimming by installer.

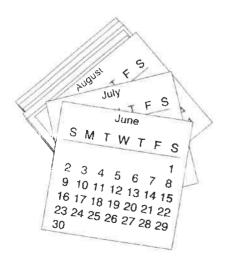




Pour concrete and allow 72 hours to cure.

Install 12" of cushioning material in and around the area required for the unit.







Establish a regular maintenance schedule, checking for loose or missing bolts, worn parts, etc.

714-716: View Groove 714-980-4: Convex Mirror 714-875: Bubble 714-980-5: Flat Mirror 714-875-30: Look-Out 714-982-2: Number Finger Maze 714-904: Clock 714-982-3: Finger Maze 714-923: Color Ball 714-982-4: Letter Finger Maze 714-924: Letter Ball 714-983-1: Marble Race 714-925: Number Ball 714-983-2: Motor Skill

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BILL OF MATERIALS

PART NO.	QTY-PER U/M	DESCRIPTION
MODEL 714 713009P 982471P 982467P	- 716 1 EA 2 EA 1 EA	PARTS CARTON ENCLOSURE ASSEMBLY, ROCKITE PANEL PANEL ASSEMBLY, VIEW GROOVE
MODEL 714	l-875	
713009P 982471P 982751P	1 EA	PARTS CARTON ENCLOSURE ASSEMBLY, ROCKITE PANEL ROCKITE PANEL WITH BUBBLE
MODEL 714 713009P 982471P 983694P	I-875-30 1 EA 2 EA 1 EA	PARTS CARTON ENCLOSURE ASSEMBLY, ROCKITE PANEL ROCKITE PANEL WITH BUBBLE
MODEL 714 713009P 982471P 982752P	1-904 1 EA 2 EA 1 EA	PARTS CARTON ENCLOSURE ASSEMBLY, ROCKITE PANEL CLOCK PANEL ASSEMBLY
MODEL 714 713009P 982471P 982566P	I-923 1 EA 2 EA 1 EA	PARTS CARTON ENCLOSURE ASSEMBLY, ROCKITE PANEL PANEL ASSEMBLY, BALL COLOR
MODEL 714 713009P 982471P 982565P	1-924 1 EA 2 EA 1 EA	PARTS CARTON ENCLOSURE ASSEMBLY, ROCKITE PANEL PANEL ASSEMBLY, BALL LETTER
MODEL 714 713009P 982471P 982564P	1-925 1 EA 2 EA 1 EA	PARTS CARTON ENCLOSURE ASSEMBLY, ROCKITE PANEL PANEL ASSEMBLY, BALL NUMBER
MODEL 714 713009P 982471P 982758P	1-980-4 1 EA 2 EA 1 EA	PARTS CARTON ENCLOSURE ASSEMBLY, ROCKITE PANEL PANEL ASSEMBLY, MIRROR, CONVEX

.10
714-980-4: Convex Mirror
714-980-5: Flat Mirror
714-982-2: Number Finger Maze
714-982-3: Finger Maze
714-982-4: Letter Finger Maze
714-983-1: Marble Race
714-983-2: Motor Skill

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PART NO.	QTY-PER U/M	DESCRIPTION
MODEL 714	-980-5	
713009P	1 EA	PARTS CARTON
982471P	2 EA	ENCLOSURE ASSEMBLY, ROCKITE PANEL
982757P	1 EA	PANEL ASSEMBLY, MIRROR, FLAT
MODEL 714	-982-2	
713009P	1 EA	PARTS CARTON
982471P	2 EA	ENCLOSURE ASSEMBLY, ROCKITE PANEL
982759P	1 EA	PANEL ASSEMBLY, FINGER MAZE,-NUMBER
MODEL 714	-982-3	
713009P	1 EA	PARTS CARTON
982471P	2 EA	ENCLOSURE ASSEMBLY, ROCKITE PANEL
982756P	1 EA	PANEL ASSEMBLY, FINGER MAZE
MODEL 714	-982-4	
713009P	1 EA	PARTS CARTON
982471P	2 EA	ENCLOSURE ASSEMBLY, ROCKITE PANEL
982755P	1 EA	PANEL ASSEMBLY, FINGER MAZE - ALPHABET
MODEL 714	-983-1	
713009P	1 EA	PARTS CARTON
982471P	2 EA	ENCLOSURE ASSEMBLY, ROCKITE PANEL
982753P	1 EA	PANEL ASSEMBLY, MARBLE RACES
MODEL 714	-983-2	
713009P	1 EA	PARTS CARTON
982471P	2 EA	ENCLOSURE ASSEMBLY, ROCKITE PANEL
982754P	1 EA	PANEL ASSEMBLY, MOTOR SKILLS

BILL OF MATERIALS:

PARTS CARTONS

PARTS CARTON (713009P) CONTENTS:

104285	6 EA =	SETSCREW, SOCKET, 3/8-16 X 3/8, SS
104166	2 EA	BOLT, BHD, 3/8-16 X 1-1/2, SOCKET, SS
110030	2 EA	NUT, NYLOCK LOCK, 3/8-16
117005	4 EA	WASHER, FLAT, 3/8, SS
713101P	2 EA	BAR SOCKET, SLIDING, KC CLAMP

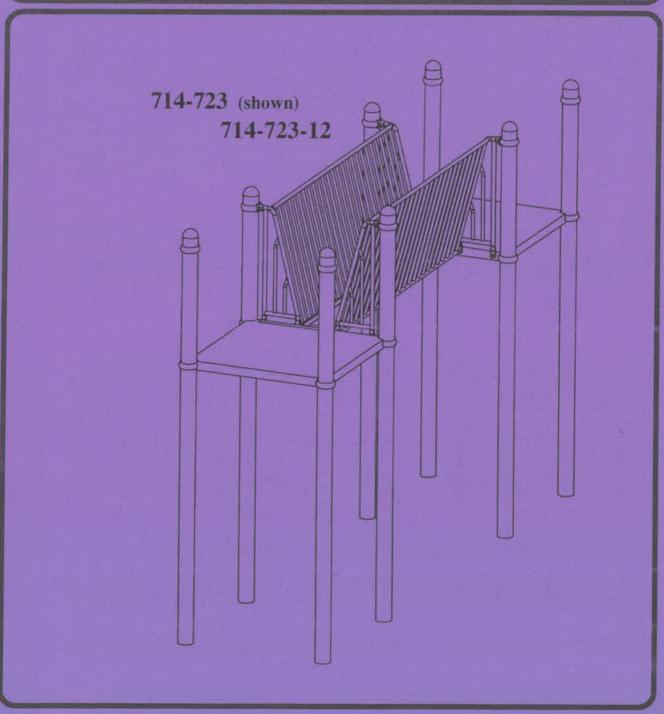




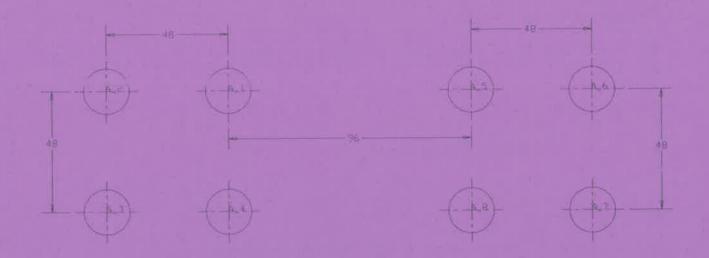
INSTALLATION INSTRUCTIONS

Model 714-723: Burma Bridge, 8' Model 714-723-12: Burma Bridge, 12'

May 16, 1997 Res. X

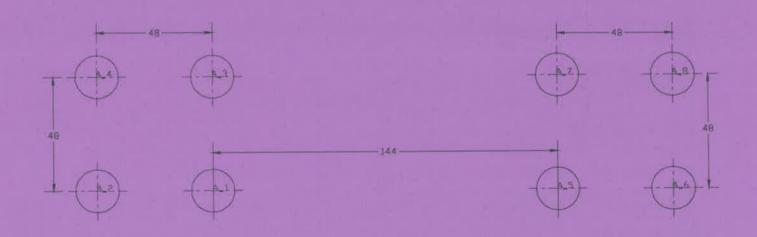


BURMA BAIDGE MODEL 714723



IB" DIA X 30" DEEP FORTINGS B REQUIRED

BURMA BRIDGE MODEL 71472312



IR' DIA * 30' DEEP FOOTINGS B REQUIRED

IMPORTANT NOTES

- After completion of a Burma Bridge, all bolts connecting the bridge boards together must have their exposed threaded ends peened. This is to prevent loosening of the 1/2" lock nuts. **This must be done.**
- 2. Before installing or erecting this equipment, please read and comply with all applicable recommendations in Safety Brochure 100 enclosed. If for some reason this brochure is missing, contact your local Miracle sales representative for a copy.
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FOOTINGS

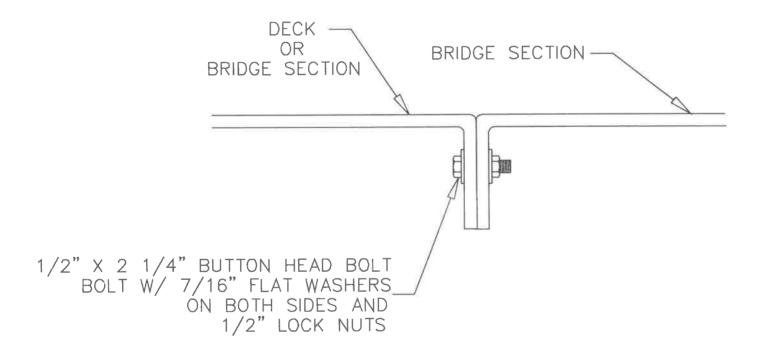


Refer to "Footing Detail" Installation Instructions for decks.

Note: Do not pour concrete for footings until all components in your deck system have been installed per installation instructions, leveled, plumbed and braced in position.

ASSEMBLY

- 1. Drill obstructing pvc from deck and bridge section mating holes.
- **2.** Position bridge section(s) and decks, and attach as shown.



ASSEMBLY

Insert a deck enclosure into a bar socket and position clamp assembly to post. Repeat 3. for all deck enclosures.

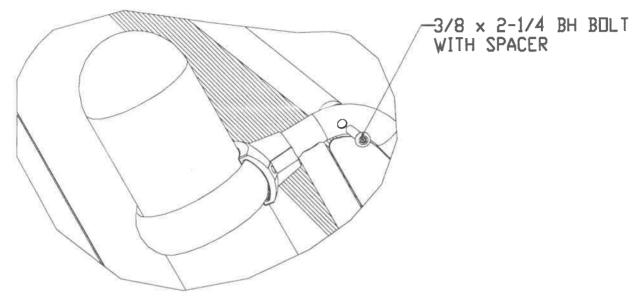




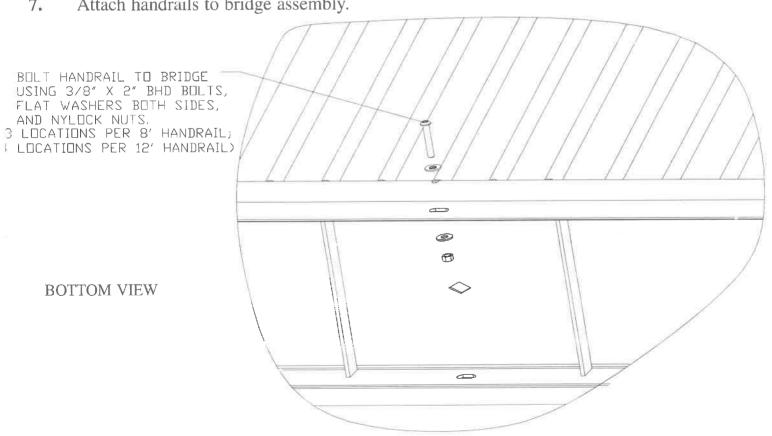
Attach deck enclosures to posts. 5.

ASSEMBLY

Attach handrails to deck enclosures. 6.



Attach handrails to bridge assembly. 7.

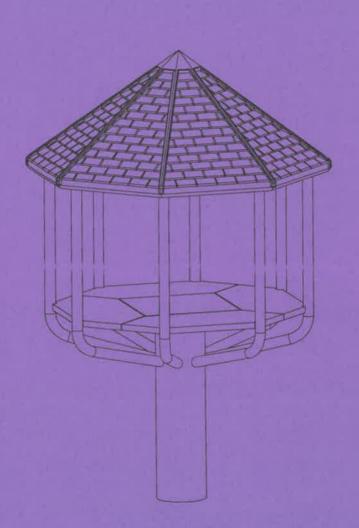




INSTALLATION INSTRUCTIONS

714-730: Treehouse Roof for Octagon Deck 714-730-6: Treehouse Roof for Hex Deck

September 15, 1997, Reset



714-730 (shown on deck) 714-730-6

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FOOTINGS

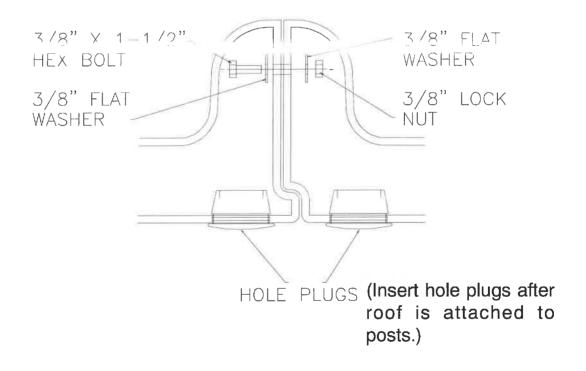


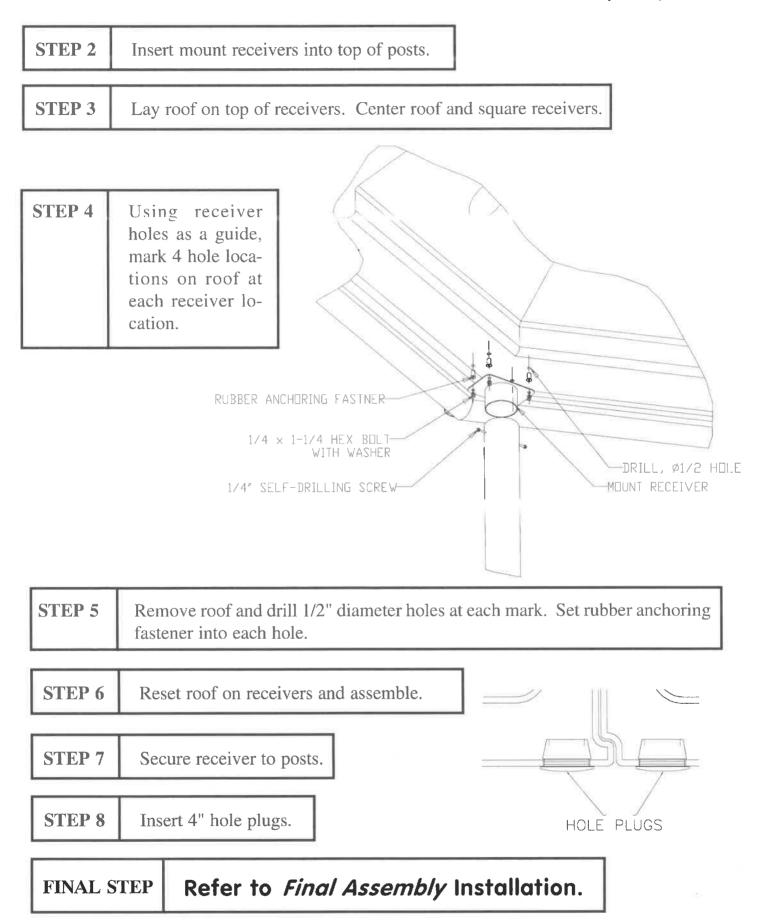
No additional footings are required for this component. For information concerning deck footings, refer to *Installation Instructions* for deck models.



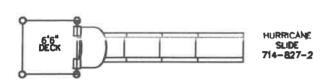
STEP 1 On deck surface, assemble roof sections.

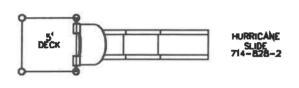
(Roof sections assemble flush by overlap and groove fittings.)

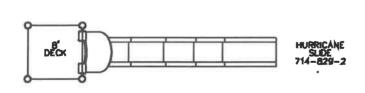




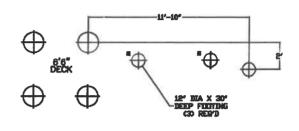
TOP VIEW

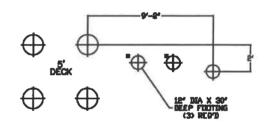


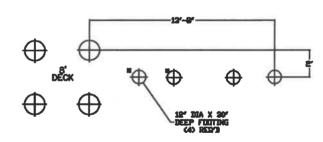




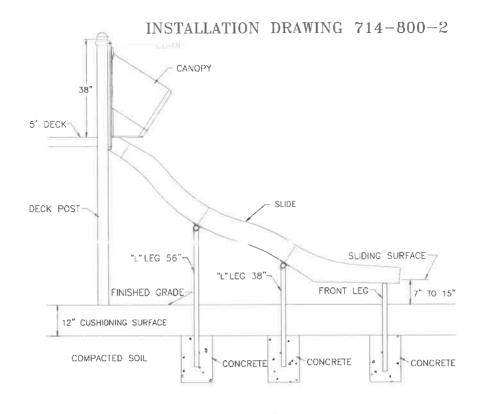
FOOTING LAYOUT

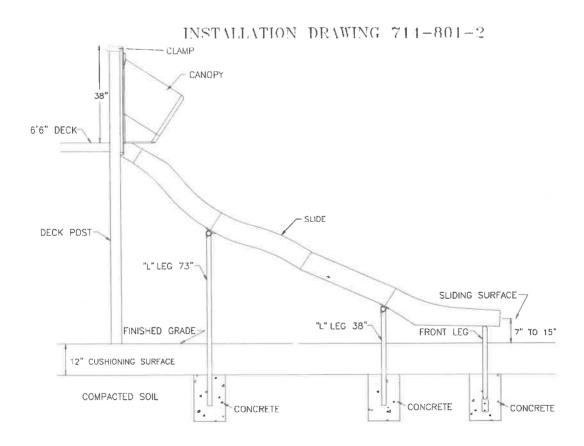




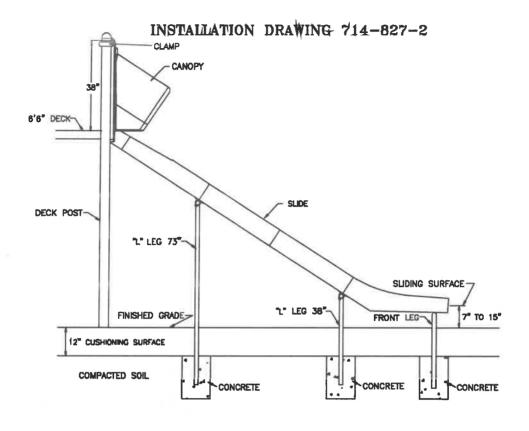


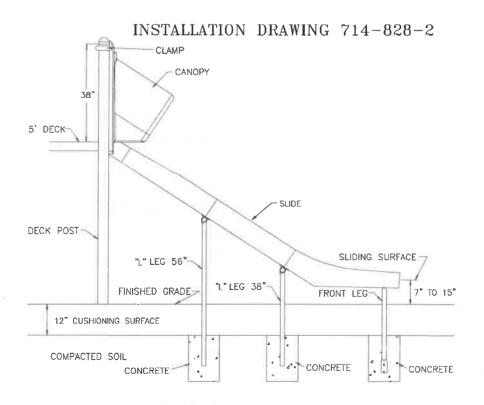
. LOCATE ON SITE

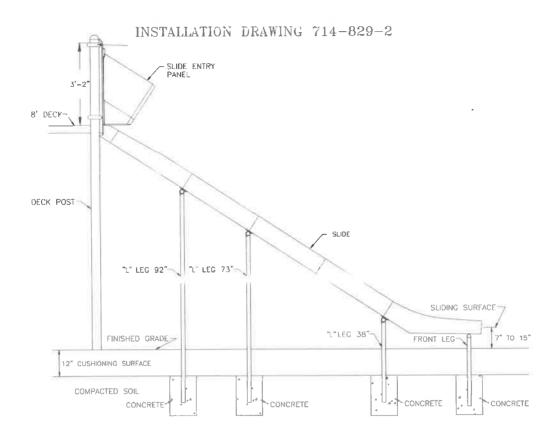


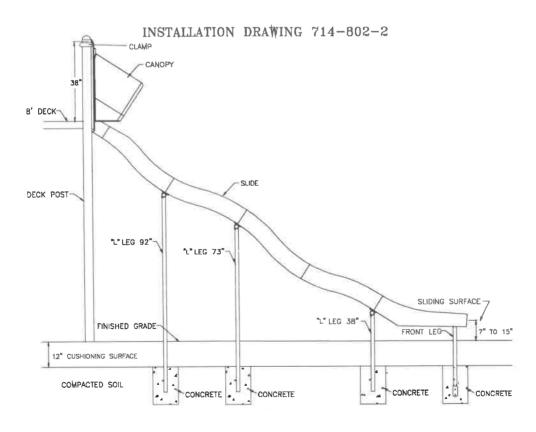


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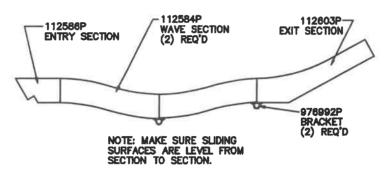




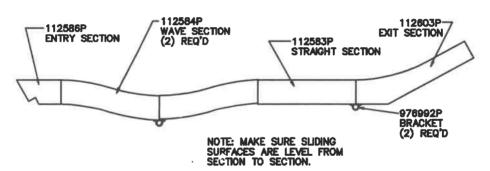


SLIDE SECTION ASSEMBLY DETAIL

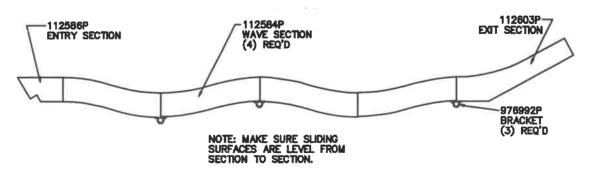
MODEL 714-800-2



MODEL 714-801-2

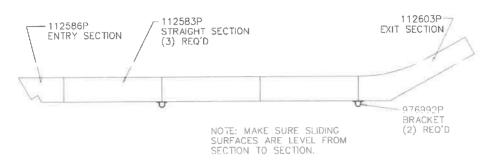


MODEL 714-802-2

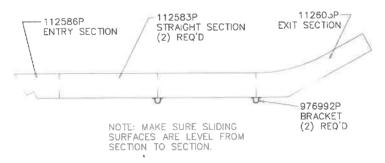


SLIDE SECTION ASSEMBLY DETAIL

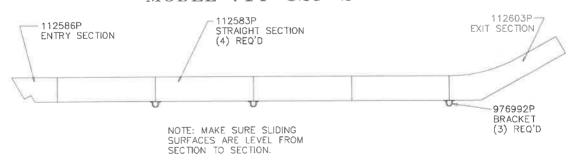
MODEL 714-827-2



MODEL 714-828-2



MODEL 714-829-2

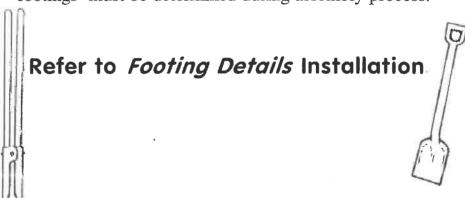


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FOOTINGS

Locate and dig footing for the legs as shown. Locations for leg footings must be determined during assembly process.



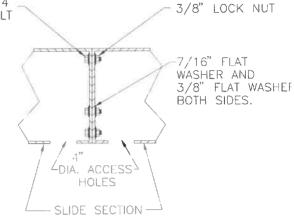
Note: Do not pour concrete for component activity footings until all components in your deck system have been installed per installation instructions, leveled, plumbed and braced in position.

3/8 X 1 3/4" = HEX BOLT

STEP 1

Attach the entry section to the first slide section.

Note: Use a cordless or air-powered ratchet to tighten nut. Before tightening make sure sliding surface is flush from section to section.



STEP 2

Attach next slide section(s) in the same manner as in step #1.

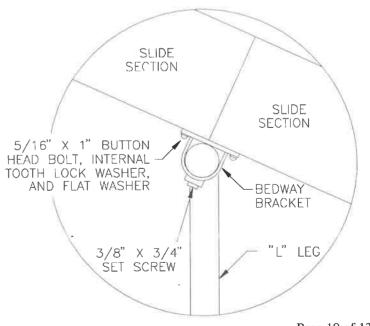
NOTE: PLUG EACH ACCESS HOLE WITH 103543P 4" PLUG AFTER ASSEMBLY

STEP 3

Plug each access hole with a 4" plug after assembly.

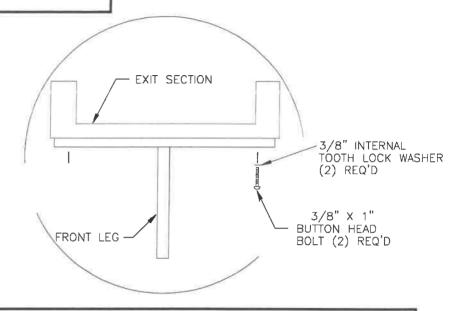
STEP 4

(Refer to Slide Section Assembly Detail for bedway bracket locations.) Attach bedway bracket to bottom of slide. Tighten securely.



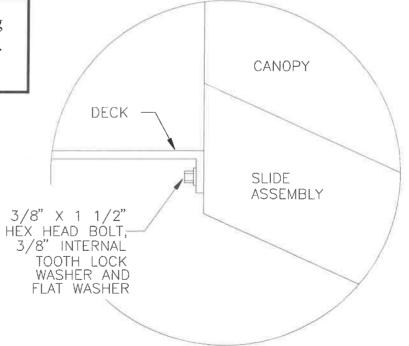
Page 10 of 13

STEP 5 Attach front leg to bottom of slide exit.

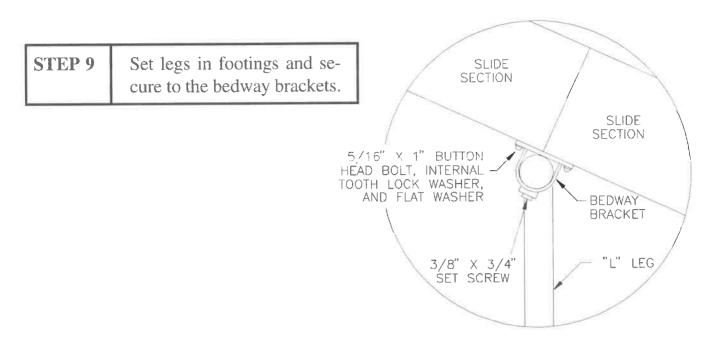


STEP 6 With a 9/16" drill bit, remove pvc from two (2) sets of holes, on the slide side of the pvc deck, located 7" and 22" apart and centered.

STEP 7 Set front leg in footing and attach slide to deck. Tighten securely.



STEP 8 Plumb the center of the bedway brackets and dig the leg footings 9" off center.



STEP 10 Plug the four (4) threaded holes in the top of the entry section using 5/16" x 1" button head bolt, internal tooth lock washer, and flat washer.

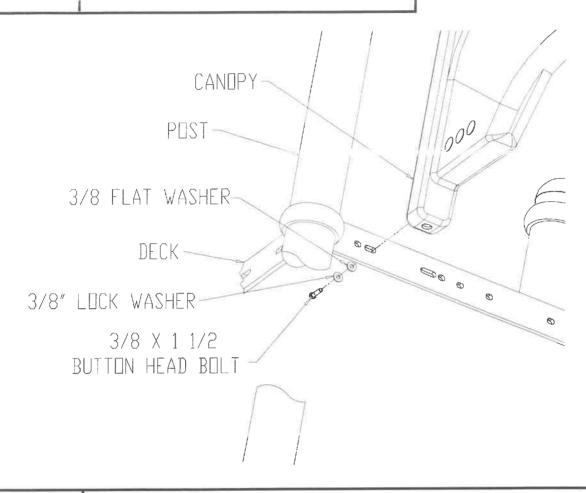
STEP 11 Insert support rung into entry panel.

STEP 12 Raise top of entry panel to 38" above deck surface. Attach entry panel to posts.

Refer to $Versa-Lok^{\circledR}$ Clamp Assembly Installation.

(Important Note: If a post must "share duty" (i.e., support more than one component), all bar sockets and deck supports must be slid onto clamp halves before attaching the clamp assembly around the post.)

STEP 13 Attach bottom of entry panel to deck.



STEP 14 Tighten set screws to secure bar sockets and enclosure braces in place.

STEP 15 Set the height of the slide exit.

Note: For slides from decks of 4 feet in height or less, the height of the exit region should be **no more** than 11 inches from the protective surface. For slides from decks that are over four feet in height, the height of the exit region should be at least 7 inches but not more than 15 inches above the protective surface. Be sure that exit region maintains enough of a slant to insure water drainage.

FINAL STEP | Refer to Final Assembly Installation.





INSTALLATION INSTRUCTIONS

Model 714-719: Cliff Climber, 3' or 5' deck Model 714-719-6: Cliff Climber, 6'6" deck Model 714-721: Canyon Climber, 3' or 5', deck Model 714-721-6: Canyon Climber, 6'6" deck Model 714-731: Trap Door Climber, 3' or 5', deck Model 714-976-5: Bumper Ladder, 5' deck Model 714-731-6: Trap Door Climber, 6'6" deck Model 714-808: Climbing Pole, 3", 5", or 6'6" deck

Model 714-908: Spider Climber, 3', 5', or 6'6" deck Model 714-969: Spiral Climber, 6'6" deck Model 714-969-5; Spiral Climber, 5' deck Model 714-976-3: Bumper Ladder, 3' deck Model 714-976-6; Bumper Ladder, 6'6" deck



714-719 714-719-6 (shown)



714-721 714-721-6 (shown)



714-731 714-731-6 (shown)





714-969 (shown) 714-969-5

714-908

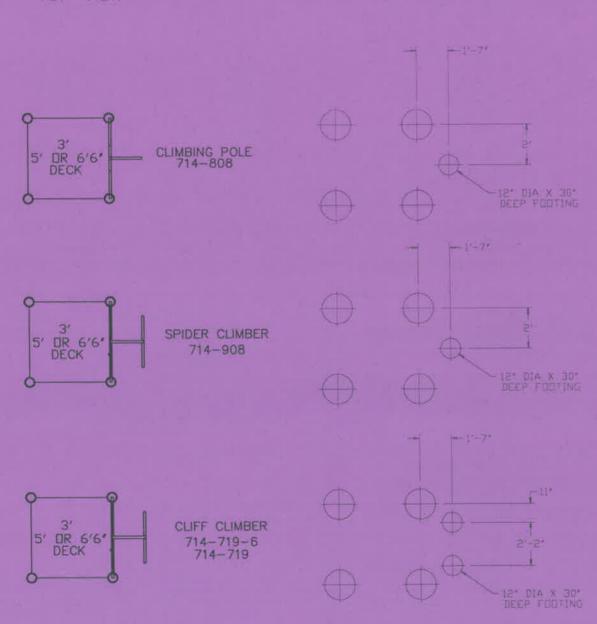


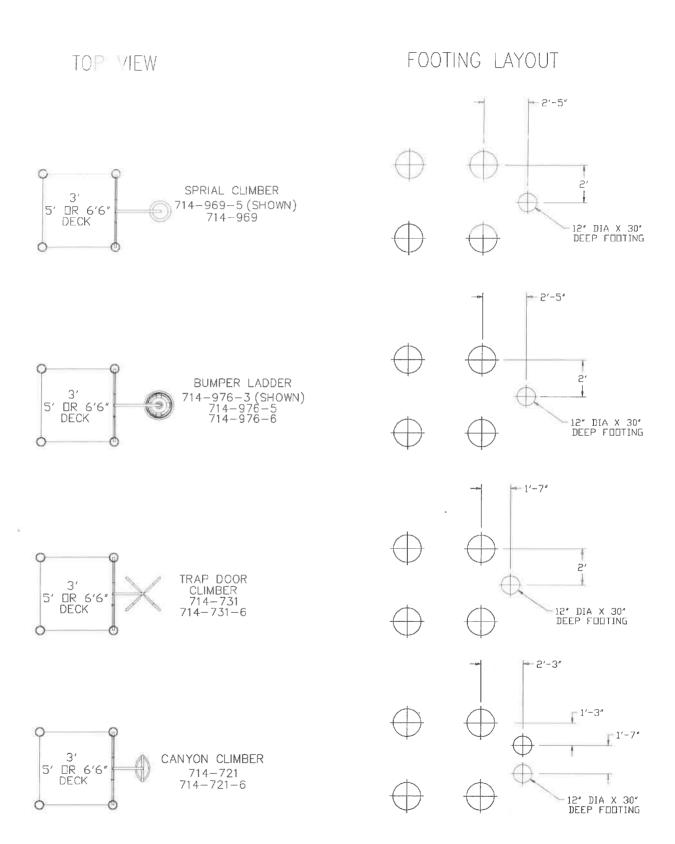


714-976-3 (shown) 714-976-5 714-976-6

TOP VIEW

FOOTING: LAYOUT



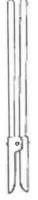


Page 3 of 6

IMPORTANT NOTES

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- 4. It is the purchaser's responsibility to maintain these areas properly after installation. It is recommended that compaction tests be made several times per year. When compactions occurs, it is recommended that the area affected be scarified or additional pea gravel, sand, redwood bark or coarse wood shavings be added until the area is soft and resilient.

FOOTINGS



Locate and dig footings 12" in diameter by 30" deep.



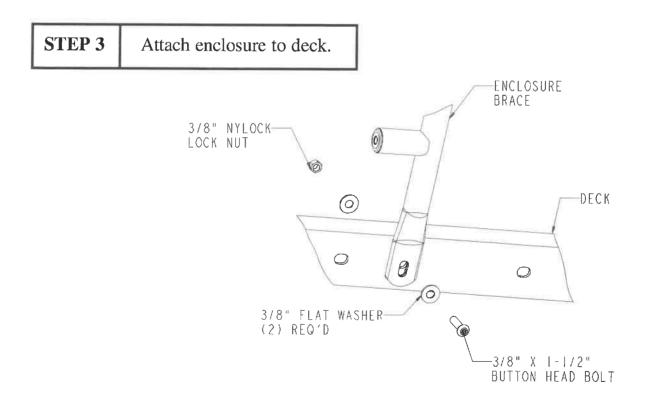
Refer to Footing Details Installation.

Note: Do not pour concrete for footings until all components in your deck system have been installed per installation instructions, leveled, plumbed and braced in position.

STEP 1 Remove any obstructing PVC from the mating deck holes.

STEP 2 Attach enclosure to posts at 38" above deck.

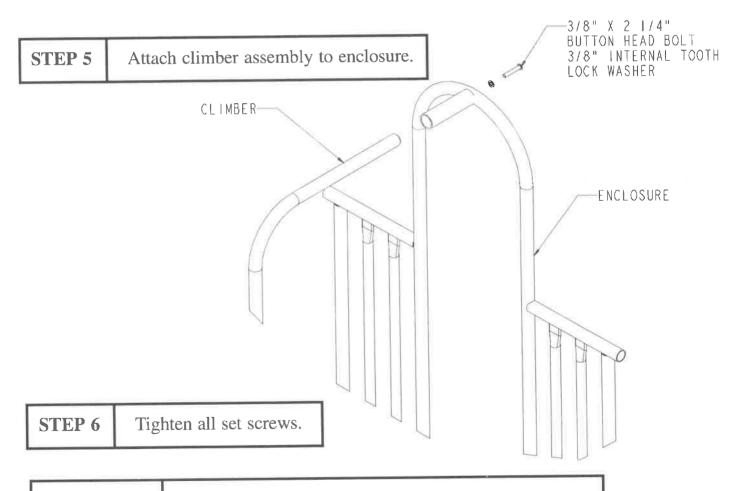
Refer to $Versa-Lok^{\circledR}$ Clamp Assembly Installation.



STEP 4 Set climber in footing.

NOTE: Some climber assemblies may need to be cut off from the bottom to adjust for specific deck heights. In these instances, measure 90" from the top of the climber and add the distance of the deck height from the finished grade.

90" + DECK HEIGHT FROM
FINISH GRADE, i.e. FOR A
CLIMBER FROM A 5' DECK,
90" + 60" = 150" FROM
TOP OF CLIMBER TO CUT OFF EDGE.



FINAL STEP

Refer to *Final Assembly* Installation.



INSTALLATION INSTRUCTIONS

Model 714-885-1: 6'8" Cyclone with steps from a 5' deck Model 714-885-10: 6'8" Cyclone with ATA steps from a 5' deck Model 714-885-41: 6'8" Cyclone with steps from a 4' deck Model 714-886-1: 6'8" Cyclone with a ramp from a 6'6" deck Model 714-888-1: 12' Cyclone with steps from a 8' deck Model 714-889-1: 12' Cyclone with steps from a 6'6" deck Model 714-962-1: 8' Cyclone with steps from a 5' deck Model 714-962-61: 8'2" Cyclone with steps from a 6'6" deck

May 21, 1998 Rev. 43

6'-8" HIGH CYCLONE SLIDE OFF 5'-0" HIGH DECK MODEL 714-885-1 (shown) MODEL 714-885-10



6"-8" HIGH CYCLONE SLIDE OFF 4'-0" HIGH DECK MODEL 714-885-41



6'-8" HIGH CYCLONE SLIDE OFF 6'-6" DECK MODEL 714-886-1



12' HIGH CYCLONE OFF 8' HIGH DECK MODEL 714-888-1



12' HIGH CYCLONE OFF 6'-6" HIGH DECK MODEL 714-889-1



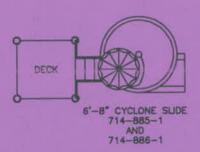
8'-0" HIGH CYCLONE SLIDE OFF 6'-0" HIGH DECK MODEL 714-962-1

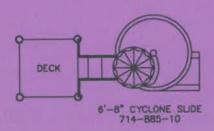


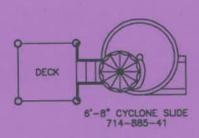
8'-2" HIGH CYCLONE SLIDE OFF 8'-6" HIGH DECK MODEL 714-962-81

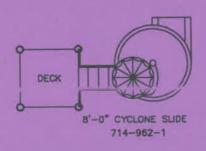


TOP VIEW

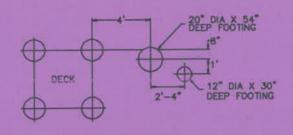


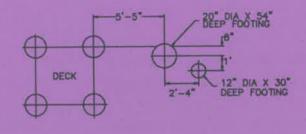


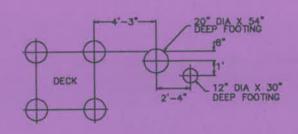


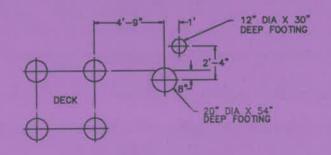


FOOTING LAYOUT

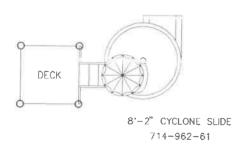




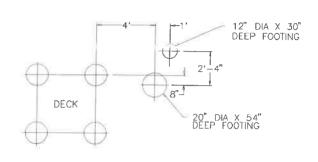


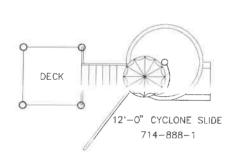


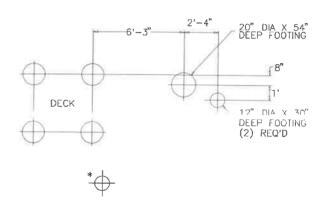
TOP VIEW

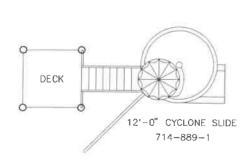


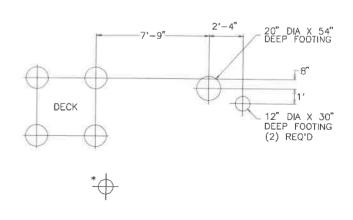
FOOTING LAYOUT





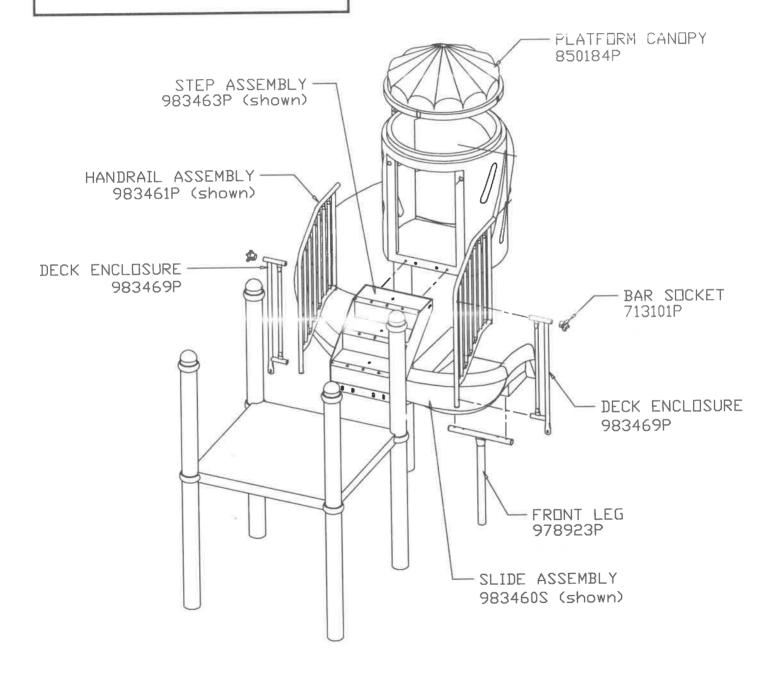






* LOCATE ON SITE

PARTS IDENTIFICATION



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FOOTINGS

1. Dig the 20" x 54" center pole and 12" x 30" front leg footings.



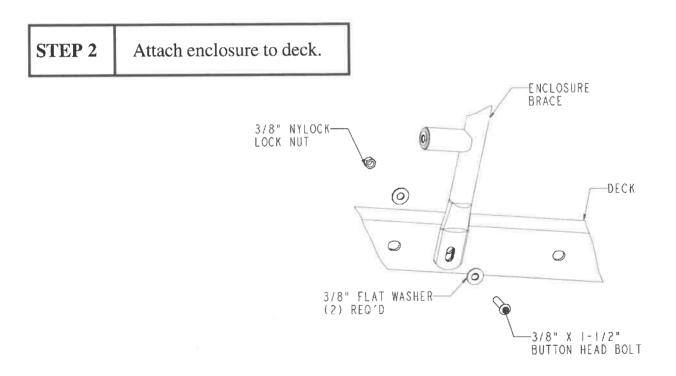
Refer to Footing Details Installation.



Note: <u>Do not pour concrete for component activity footings until all components in your deck system</u> have been installed per installation instructions, leveled, plumbed and braced in position.

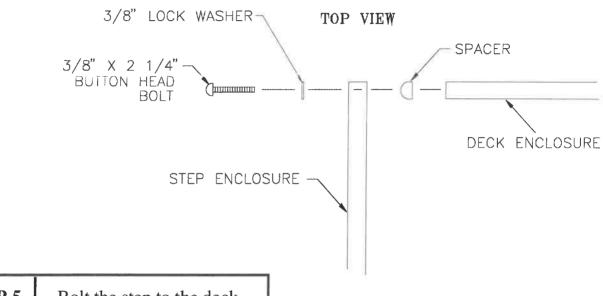
STEP 1 Attach enclosure to posts.

Refer to $Versa-Lok^{\circledR}$ Clamp Assembly Installation.

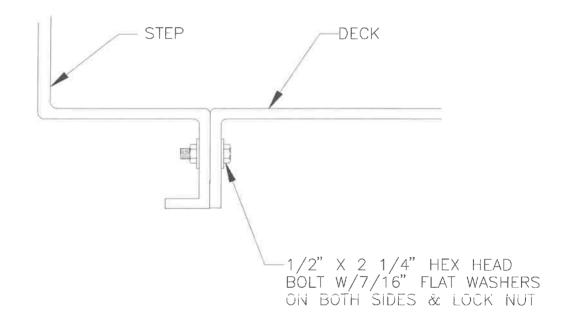


STEP 3 Tighten bar socket set screws to fix enclosure and bar socket in place.

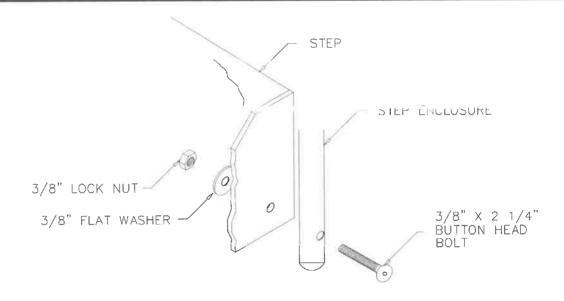
STEP 4 Bolt the step enclosure to the deck enclosure.



STEP 5 Bolt the step to the deck.



Adjust the height and position of the step to line up the holes on top of the step enclosure.

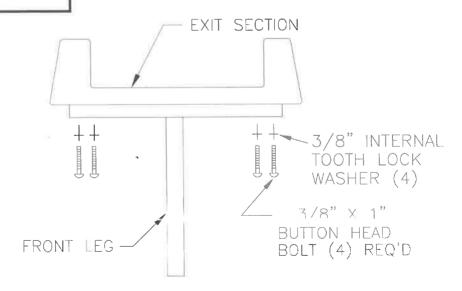


STEP 7

Bolt top end of step enclosure to step.

STEP 8

Attach front leg to slide.



Using a fork lift, lift entire assembly and set the center pole in the 20" diameter footing.

STEP 10

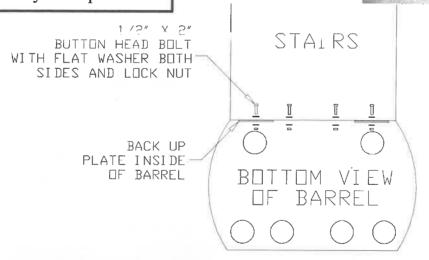
Insert handrails into slide.



Important note: Position slide and handrail so that the end upright (next to slide barrel) is parallel to the side of the barrel. Even if slide or handrail must be tilted slightly off vertical, priority must be given to handrail/barrel spacing.

STEP 11

Bolt the stair (or ramp) assembly to the platform.



STEP 12

Set the height of the slide exit from the top of the protective surface.

Note: For slides from decks of 4 feet in height or less, the height of the exit region should be no more than 11 inches from the protective surface. For slides from decks that are over four feet in height, the height of the exit region should be at least 7 inches but not more than 15 inches above the protective surface. Be sure that exit region maintains enough of a slant to insure water drainage.

For all other models, proceed to step 17:

For models

714-888 & 714-889-1:

refer to steps 12 through 16 following:

PVC STEP-STRINGER REAM PVC FROM HOLE STEP 13 Position brace to step USING 9/16" DRILL BIT to determine footing location and dig foot-/2" x 1 1/2" BUTTON HEAD BOLT WITH FLAT WASHERS BOTH SIDES **STEP 14** Using brace hole as a AND HEX LOCK NUT UNDER STEPS guide, drill a 9/16" hole in step. **STEP 15** Attach diagonal brace to step. DIAGONAL BRACE **STEP 16** Tighten all fasteners securely. #10 x 1" WAY SCREW W/NEO BOND WASHER (4) PLACES

STEP 17

Position platform canopy on the platform barrel. Using an electric screw driver, attach canopy to barrel.

FINAL STEP

Refer to Final Assembly Installation.



Open Handrails

Handrails with Spokes

714-959

714-990

714-993

714-810 ATA Stair - 1' rise 714-882

STD Stair - 3' to 8' Deck

714-896 STD Stair - 3' to 6'6" Deck 714-897 STD Stair - 5' to 6'6" Deck

ATA Stair - 3' to 5' Deck

714-897-5 714-959-5

STD Stair - 3' to 5' Deck

714-896-5

714-990-5

ATA Stair - 5" to 6'6" Deck

714-993-5

714-896 (shown) 714-882





714-897 (shown) 714-810

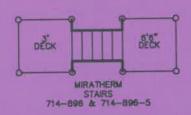


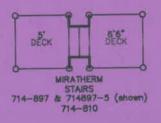






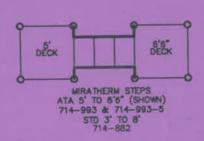
TOP VIEW



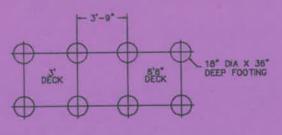


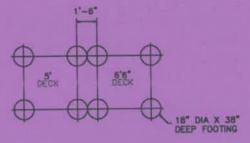


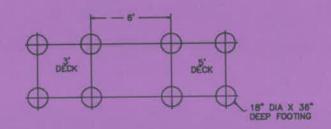


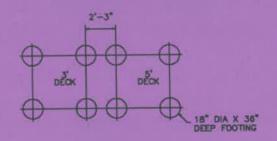


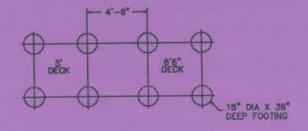
FOOTING LAYOUT











IMPORTANT NOTES

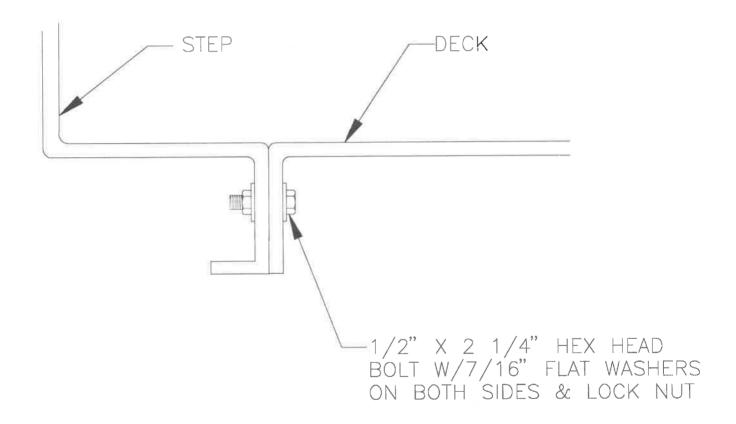
- 1. Before installing or erecting this equipment, please read and comply with all applicable recommendations in Safety Brochure 100 enclosed. If for some reason this brochure is missing, contact your local Miracle sales representative for a copy.
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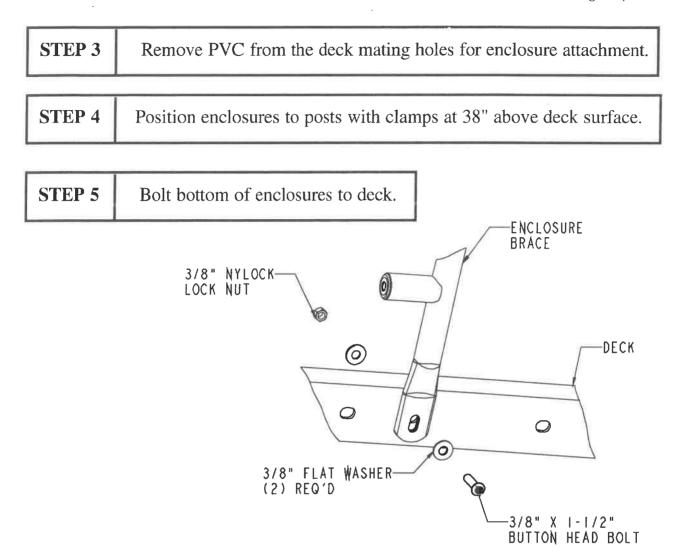
FOOTINGS

No additional concrete is required for these models. Refer to deck footing instructions for information regarding deck post footings.

NOTE:Do not pour concrete for component activity footings until all components in your deck system have been installed per installation instructions, leveled, plumbed and braced in position. (Refer to Deck Installation Instructions.)

STEP 1	Remove PVC from the deck mating holes.
STEP 2	Bolt steps to deck.

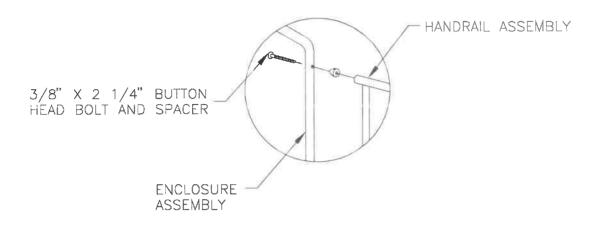




STEP 6 Attach enclosures to posts with clamps.

REFER TO VERSA-LOK® CLAMP ASSEMBLY INSTALLATION.

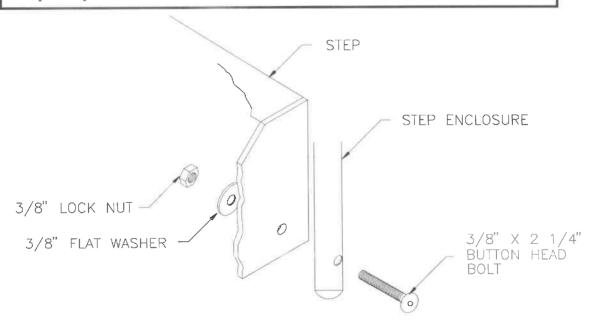
STEP 7 Attach deck enclosures to step side handrails.



STEP 8 Attach step enclosures to step.

STEP 9 Remove pvc from holes in step.

STEP 10 Attach the bottom of the higher end of each handrail to the side of the step. Repeat for lower end of each handrail.



FINAL STEP

REFER TO FINAL ASSEMBLY INSTALLATION.



INSTALLATION INSTRUCTIONS

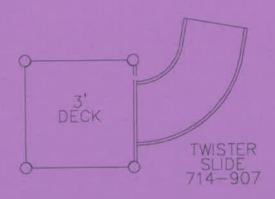
Model 714-907 Twister Slide

Amil 2, 1998 Rev. D.

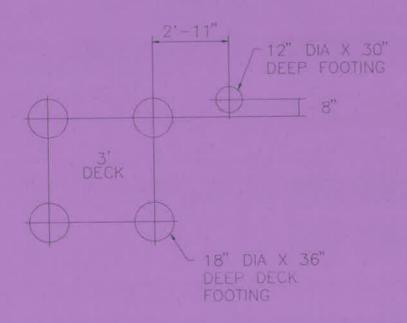


714-907

TOP VIEW



FOOTING LAYOUT



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FOOTINGS



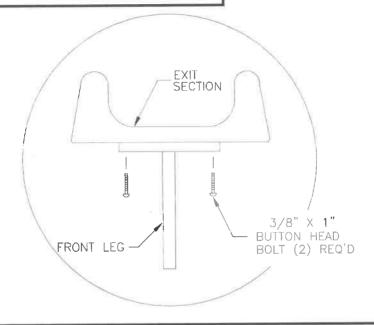
Dig the footing for the front leg.

Refer to Footing Details Installation.



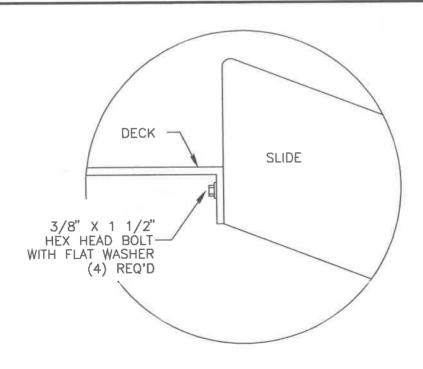
Note: Do not pour concrete for footings until all components in your deck system have been installed per installation instructions, leveled, plumbed and braced in position.

STEP 1 Bolt front leg to bottom of slide exit.

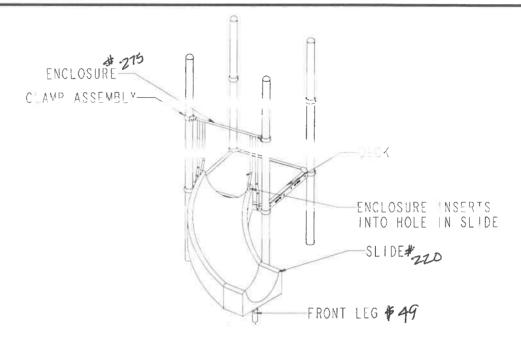


Remove obstructing PVC from (2) sets of holes, on the slide side of the deck, located 13-3/4" and 22" apart and centered on the deck.

STEP 3 Place front leg in footing, positioning slide against the deck. Bolt the slide to these holes.

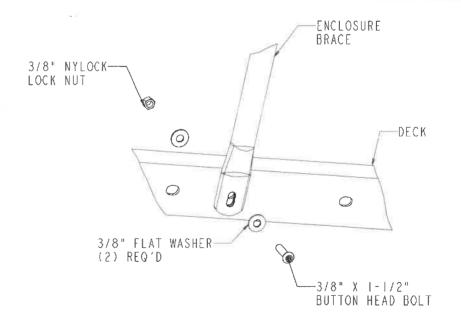


Insert inside enclosure uprights into holes in slide siderails and position handhold bar at 38" above the edge of the deck.



STEP 5

Remove obstructing PVC from deck mating holes and attach bottom of enclosure to deck.



STEP 6 Attach enclosure to posts with clamps.

Refer to $Versa-Lok^{\circledR}$ Clamp Assembly Installation.

STEP7 Set the height of the slide.

Note:

Set the height of the slide exit from the top of the protective surface. For slides from decks of 4 feet in height or less, the height of the exit region should be no more than 11 inches from the protective surface. For slides from decks that are over four feet in height, the height of the exit region should be at least 7 inches but not more than 15 inches above the protective surface. Be sure that exit region maintains enough of a slant to insure water drainage.

FINAL STEP

Refer to Final Assembly Installation.

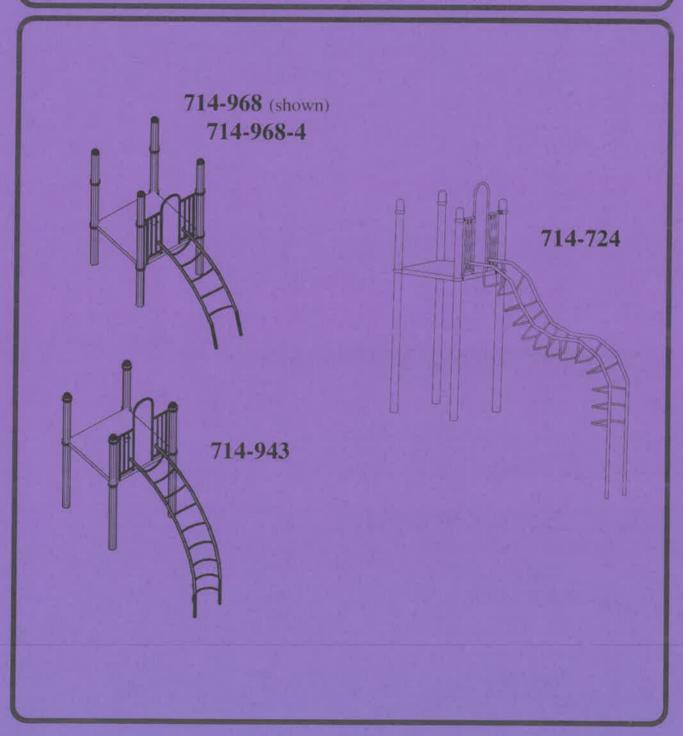


INSTALLATION INSTRUCTIONS

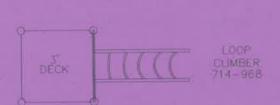
Curved Loop Climbers

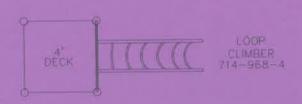
Model 714-724: Uphill Climber, 5' or 6'6" Deck Model 714-943: Curved Loop Climber from a 5' or 6'6" Deck Model 714-968: Curved Loop Climber from a 3' Deck Model 714-968-4: Curved Loop Climber from a 4' Deck

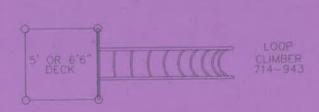
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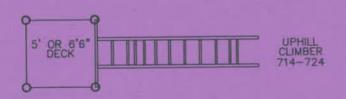


TOP VIEW

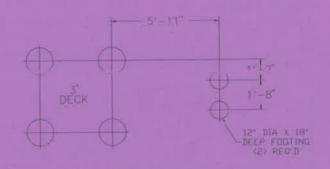


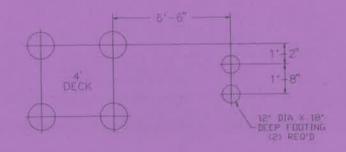


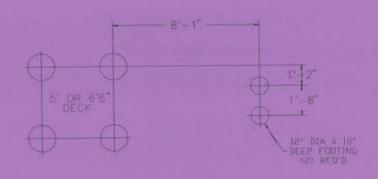


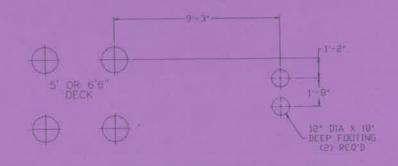


FOOTING LAYOUT









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FOOTINGS



Dig the footings.

Refer to Footing Details Installation.



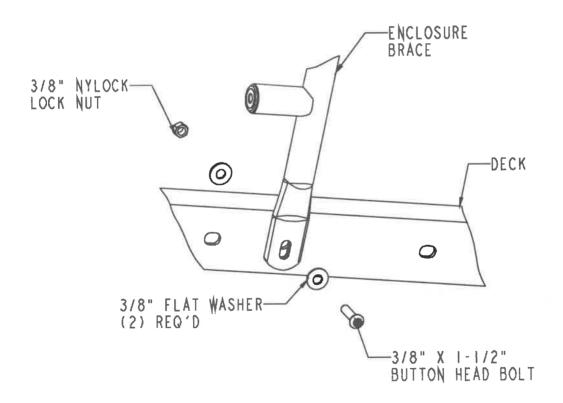
Note: Do not pour concrete for footings until all components in your deck system have been installed per installation instructions, leveled, plumbed and braced in position.

Raise the top of the enclosure handrails to 38" above the edge of the deck and attach to posts using the clamps.

Refer to $Versa-Lok^{\circledR}$ Clamp Assembly Installation.

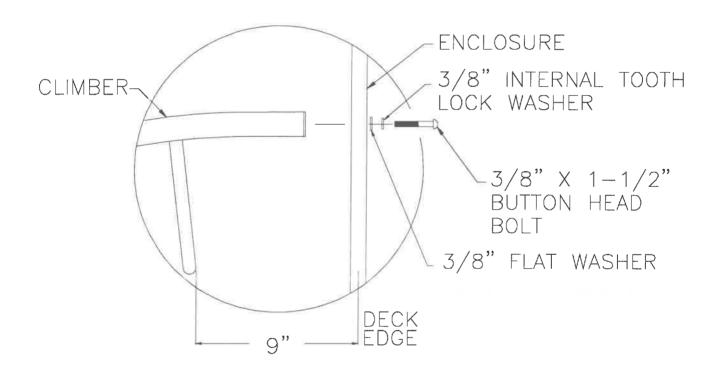
STEP 2

Attach the bottom of the enclosure to the deck.



STEP 3 Set the end of the climber in the footing holes.

Attach remaining end of the climber to the enclosure uprights. The climber siderails have nuts in the ends to accept the bolts. Be sure that there is at least 9 inches of clearance between the first loop and the edge of the deck.



FINAL STEP | Refer to *Final Assembly* Installation.

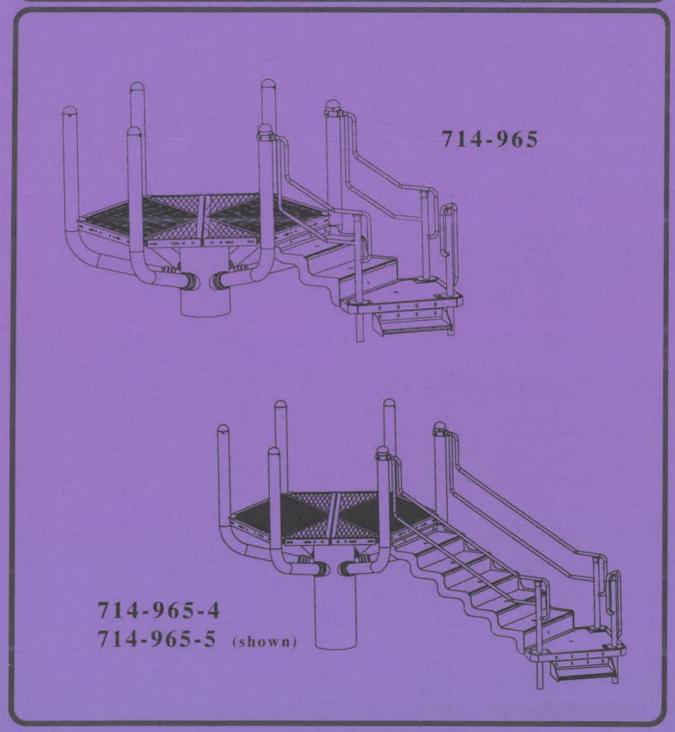




INSTALLATION INSTRUCTIONS

Model 714-965: Transfer Point with Single Step (3' Deck) Model 714-965-4: Transfer Point with Single Step (4' Deck) Model 714-965-5: Transfer Point with Single Step (5' Deck)

Angust 13, 1997; Rev. D

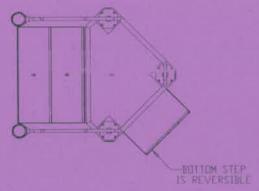


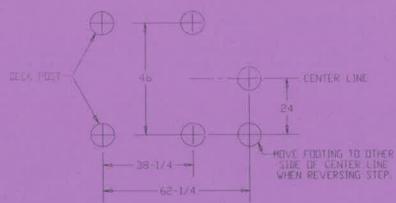
FOOTING LAYOUTS

MODEL 714-965

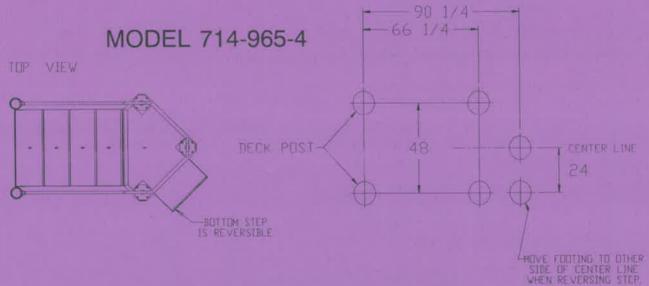
TOP VIEW

FOOTING LAYOUT

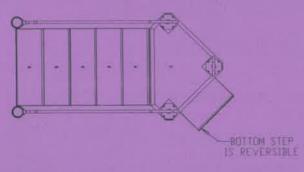




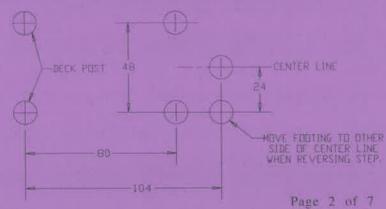
FUDTING LAYOUT



MODEL 714-965-5



TOP: VIEW



IMPORTANT NOTES

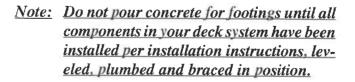
- Before installing or erecting this equipment, please read and comply with all applicable recommendations in Safety Brochure 100 enclosed. If for some reason this brochure is missing, contact your local Miracle sales representative for a copy.
- 2. Before starting construction, check with all utility companies for exact locations of underground utilities.
- 3. When designing areas for footings and the area under and adjacent to all equipment, consideration should be given to soil types and subgrade characteristics. The purchaser and/or installing contractor will be responsible for proper installation and insuring that abnormal and unsafe compaction does not occur in these areas, which are generally recommended to be under and a minimum of 6' out from the edges of all play structures.
- 4. It is the purchaser's responsibility to maintain these areas properly after installation. It is recommended that compaction tests be made several times per year. When compaction occurs, it is recommended that the area affected be scarified or additional pea gravel, sand, redwood bark or coarse wood chips be added until the area is soft and resilient.

FOOTINGS



Dig the footings as shown in Footing Layouts on page 2.

Refer to Footing Details Installation.



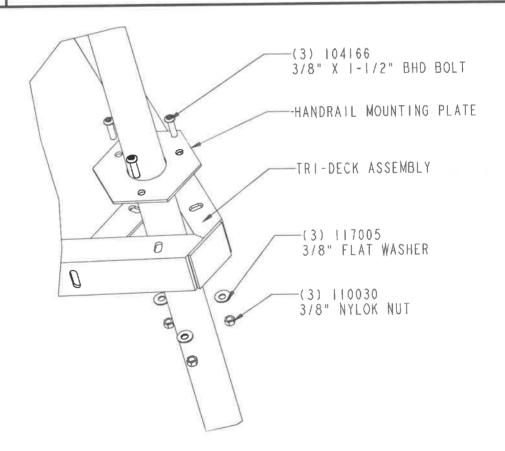


Attach tops of stair handrails to deck posts using clamps.

Refer to $Versa-Lok^{\circledR}$ Clamp Assembly Installation.

STEP 2

From the top view, determine the direction and orientation of the 983000P Bottom Step handrail and the 983006P (3'), 983979P (4'), or 982995P (5') Transfer Point-to-Deck handrails relative to the 982987P Tri-deck. With a 7/16" drill bit, remove excess pvc from the four (4) bolting holes (12 total) positioned around each post hole in each corner of tri-deck until attachment plate comes in contact with the deck.

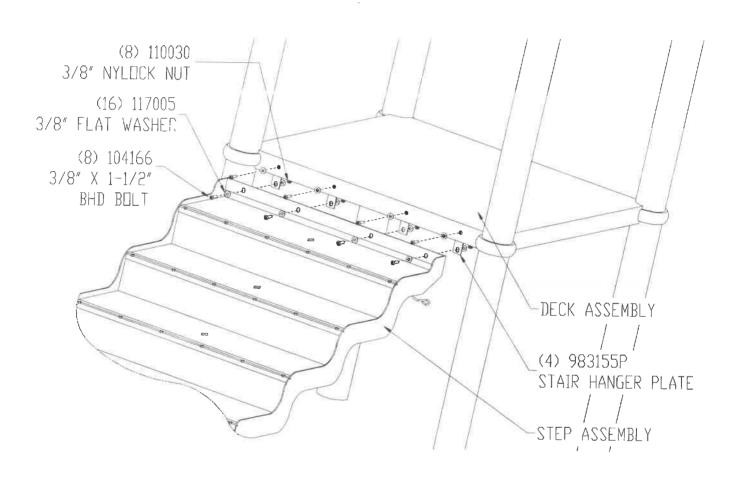


STEP 3

Fasten handrails with (3) sets of 3/8" x 1-1/2" button head bolt with flat washer and Nylock nut from underneath side of tri-deck.

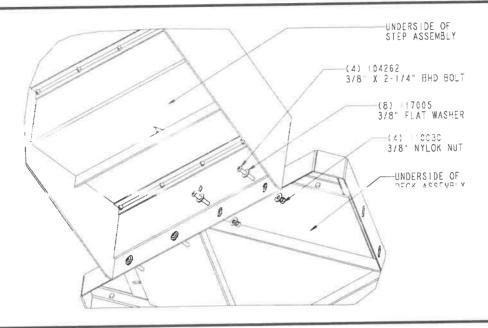
STEP 5

Remove excess pvc from four holes in deck edge and in four holes in top end of step section with 7/16" drill bit.



STEP 5	Attach four 983155P hanger plates to back side of deck edge		
STEP 6	Align holes in top of step hanger plates on deck and fasten.		

With 7/16" drill bit, remove excess pvc from four holes in bottom of step section and corresponding holes in tri-deck edge.

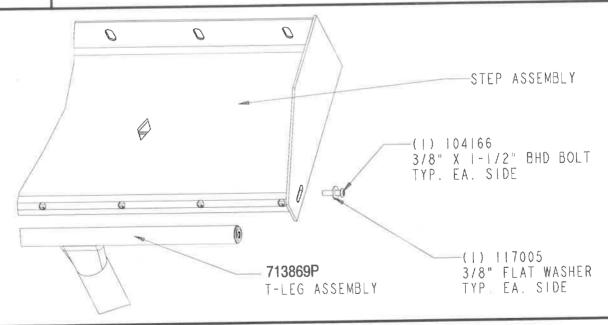


STEP 8

Fasten step section to deck edge. Tri-deck should be positioned between 14" and 18" above ground.

STEP 9

Remove excess pvc from slots in each side of 713872P bottom step section.



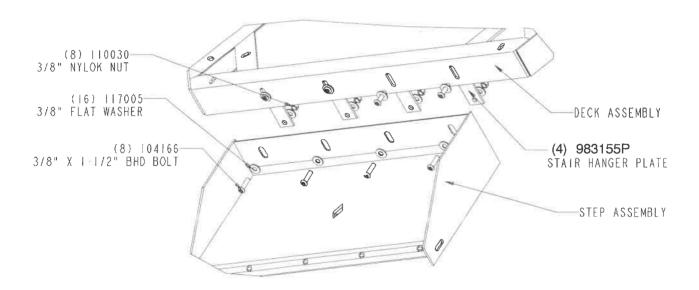
STEP 10

Align slots with inserts in end of 713869P "T"-leg. Fasten step to "T"-leg through slots into insert at each side of section. Set "T"-leg with step section into footing hole.

Remove excess pvc from four holes in tri-deck edge and in four holes in top end of step section with 7/16" drill bit.

STEP 12

Attach four 983155P hanger plates to back side of tri-deck edge with 3/8" x 1-1/2" button head bolt and flat washer from front and Nylock nut and flat washer from back.



STEP 13

Align holes in top of step hanger plates on tri-deck and fasten.

FINAL STEP

Refer to Final Assembly Installation.



INSTALLATION INSTRUCTIONS

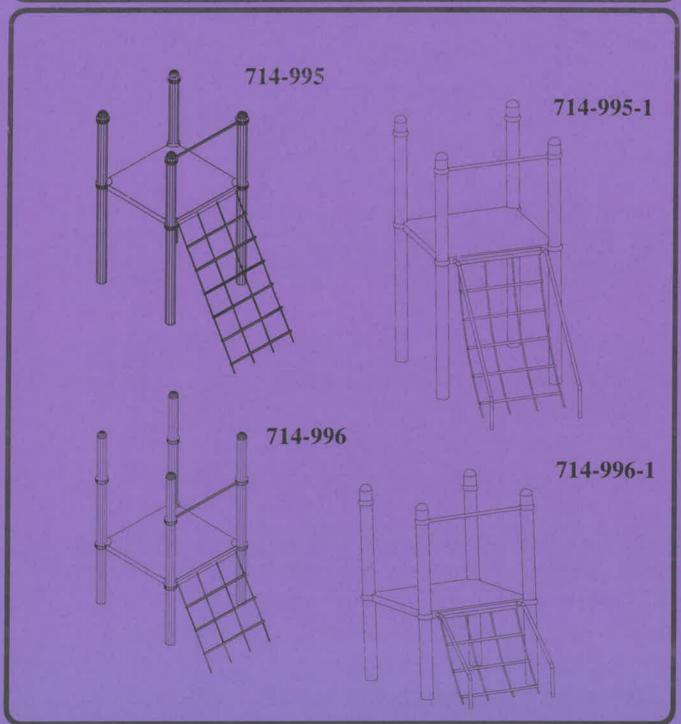
Model 714-995: Cargo Climber from a 5' Deck

Model 714-995-1: Cargo Climber with Handhold from a 5' Deck

Model 714-996: Cargo Climber from a 3' Deck

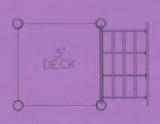
Model 714-996-1: Cargo Climber with Handhold from a 3' Deck

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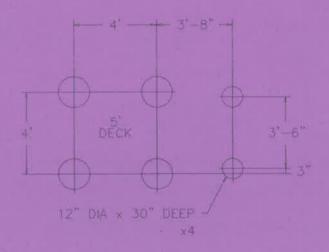
TOP VIEW

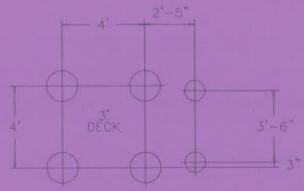




CARGO CLIMBER 714-996 (shown) 714-996-1

FOOTING LAYOUT





IMPORTANT NOTES

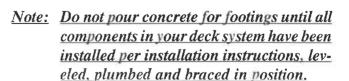
- 1. Before installing or erecting this equipment, please read and comply with all applicable recommendations in Safety Brochure 100 enclosed. If for some reason this brochure is missing, contact your local Miracle sales representative for a copy.
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- 4. It is the purchaser's responsibility to maintain these areas properly after installation. It is recommended that compaction tests be made several times per year. When compaction occurs, it is recommended that the area affected be scarified or additional pea gravel, sand, redwood bark or coarse wood chips be added until the area is soft and resilient.

FOOTINGS



Two footings are required for the cargo climber anchor, 12" in diameter by 30" deep and 3'-6" center to center. The footing distance from the platform, for models without side handholds, are determined depending on how tight or loose you want the cargo climber to be.

Refer to Footing Details Installation.





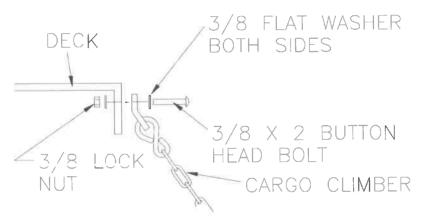
STEP 1

Raise the handhold to 38" above the edge of the deck and attach to posts using the clamps.

Refer to $Versa-Lok^{\circledR}$ Clamp Assembly Installation.

STEP 2A

Attach the rung with loops to the side of the deck. Position loops outward pointing toward footings and tighten.



REAM PVC FROM MATING HOLES IN CARGO CLIMBER TOP BRACKET AND DECK FACE.

For models with side handholds:

STEP 2B

Position each top (deck) end of the side handholds against deck face and attach by bolting through the deck into the end of the side handhold. The side handhold has threaded inserts to receive bolts.

STEP 2C

Bolt through side handholds into ends of anchor. The anchor has threaded inserts to receive bolts.

For all models:

1 1	Place the ends of the anchor in the footings with the loops pointing toward the deck. Attach the "S" hooks on the bottom of the cargo climber to the loops of the anchor. Close all "S" hooks metal to metal.
-----	---

With the center of the anchor resting on the ground, pull the anchor away from the deck to adjust the desired tension. Block and brace anchor in this position.

CARGO CLIMBER TO ANCHOR



FINAL STEP Refer to *Final Assembly* Installation.





714-713-1B: Television

714-713-2B: Puppet Stage

714-713-3B: Window

714-713-4B: Computer

714-713-5B: Door

714-713-6B: Bank Teller

714-713-7B: General Store

714-714-1B: Park Ranger

714-714-2B: Fire Truck

714-714-3B: Police

714-714-4B: Train

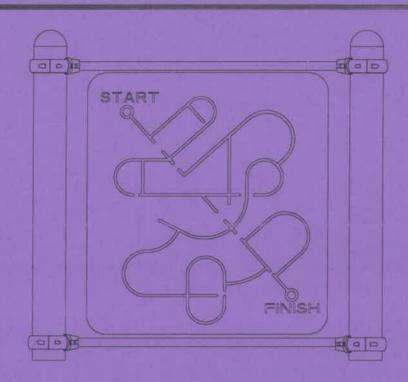
714-714-5B: Taxi

The state of the state of

714-715-1B: Alphabet

714-715-2B: Maze Finger 714-715-4B: Calculator

714-715-6B: Bus Stop



714-713-1B	
714-713-2B	
714-713-3B	
714-713-4B	
714-713-5B	
714-713-6B	
714-713-7B	

714-714-1B 714-714-2B 714-714-3B 714-714-4B 714-714-5B 714-715-1B 714-715-2B (shown) 714-715-4B 714-715-6B

714-713-1B: Television 714-713-2B: Puppet Stage

714-713-3B: Window 714-713-4B: Computer

714-713-5B: Door

714-713-6B: Bank Teller 714-713-7B: General Store 714-714-1B: Park Ranger

714-714-2B: Fire Truck

714-714-3B: Police 714-714-4B: Train 714-714-5B: Taxi

714-715-2B: Maze Finger 714-715-4B: Calculator

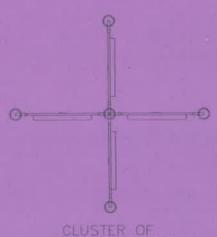
714-715-6B: Bus Stop

714-715-1B: Alphabet

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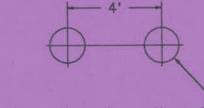
FOOTINGS

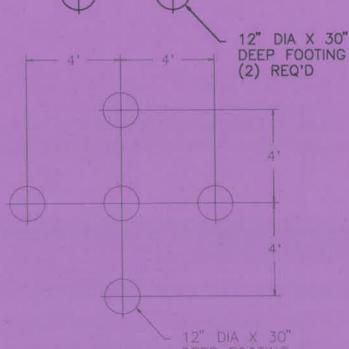
TOP VIEW



Dig the footings and place posts.

FOOTING LAYOUT





FOOTING DETAIL

SCALE: NONE

Note: Do not pour concrete for component activity footings until all components in your deck system have been installed per installation instructions, leveled, plumbed and braced in position.

Page 3 of 10

IMAGINATION PANELS BELOW DECK AND IN CLUSTER ARRANGEMENT

714-713-1B: Television
714-713-2B: Puppet Stage
714-713-3B: Window
714-713-4B: Computer
714-713-5B: Door
714-713-6B: Bank Teller
714-713-7B: General Store
714-713-7B: Television
714-714-1B: Park Ranger
714-715-1B: Alphabet
714-715-2B: Maze Finger
714-715-4B: Calculator
714-715-6B: Bus Stop

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Page 4 of 10

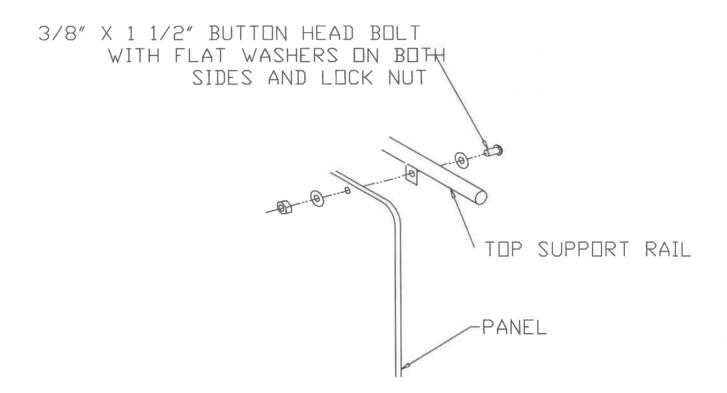
IMAGINATION PANELS BELOW DECK AND IN CLUSTER ARRANGEMENT

714-713-1B: Television
714-713-2B: Puppet Stage
714-713-3B: Window
714-713-4B: Computer
714-713-5B: Door
714-713-6B: Bank Teller
714-713-7B: General Store
714-713-7B: Taxi
714-713-1B: Park Ranger
714-715-1B: Alphabet
714-715-2B: Maze Finger
714-715-4B: Calculator
714-715-6B: Bus Stop

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ASSEMBLY

1. Attach top and bottom panel supports to panel. Bottom support attaches in same manner as top support.



Page 5 of 10

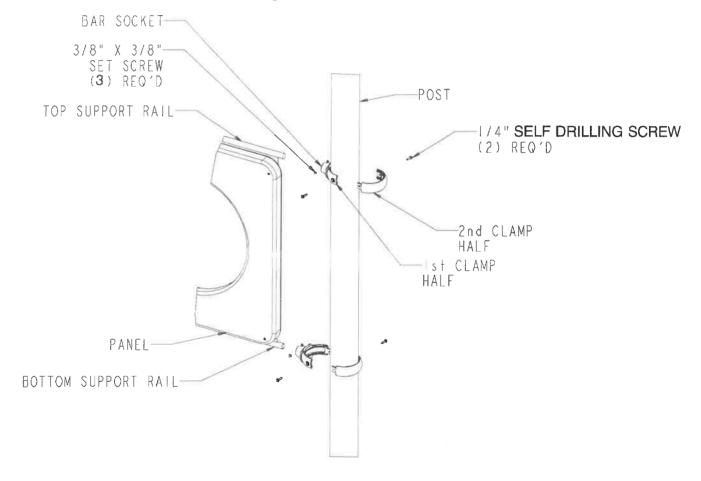
IMAGINATION PANELS BELOW DECK AND IN CLUSTER ARRANGEMENT

714-713-1B: 714-713-2B: 714-713-3B: 714-713-4B: 714-713-6B: 714-714-713-6B: 714-713-6B: 714-713-6B: 714-713-6B: 714-713-6B: 714-714-713-6B: 714-713-714-714-713-714-714-714-714-714-714-714-714-714-714	Puppet Stage Window Computer Door Bank Teller	714-714-1B: 714-714-2B: 714-714-3B: 714-714-4B: 714-714-5B:	Fire Truck Police Train	714-715-1B: 714-715-2B: 714-715-4B: 714-715-6B:	Maze Finger Calculator
714-713-7B: (General Store				

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ASSEMBLY

- 2. Insert each rung end into a bar socket and slide bar socket onto clamp half.
- **3.** Attach each clamp assembly around one of the posts with center of clamps at 38" above deck surface, securing enclosure and bar sockets with set screws.



ASSEMBLE POST CLAMPS AND BAR SOCKET TOGETHER AS SHOWN USING THE PANEL ASSEMBLY TO LOCATE HEIGHT AND ROTATION

For models without steering wheel, proceed to step 6.

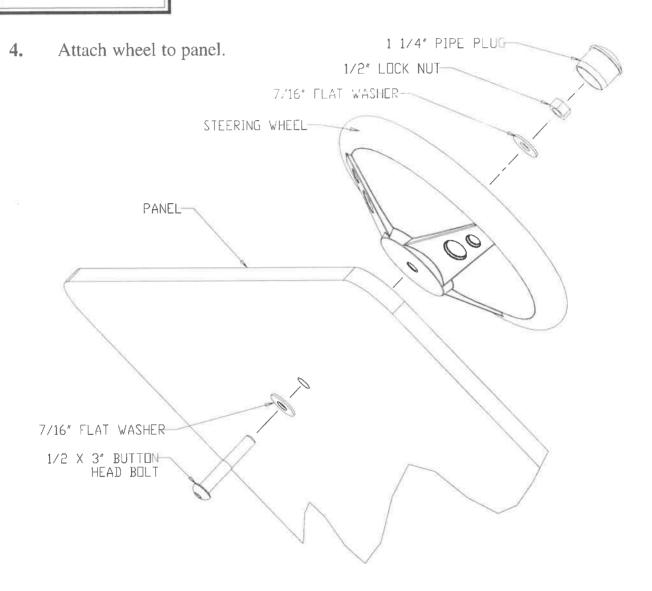
For models with steering wheel, proceed to steps 4 and 5 following:

714-713-1B: Television
714-713-2B: Puppet Stage
714-713-3B: Window
714-713-4B: Computer
714-713-5B: Door
714-713-6B: Bank Teller
714-714-5B: Park Ranger
714-715-1B: Alphabet
714-715-2B: Maze Finger
714-715-4B: Calculator
714-715-6B: Bus Stop

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ASSEMBLY

714-713-7B: General Store



5. Attach center cover.

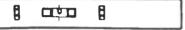
714-713-1B: Television
714-713-2B: Puppet Stage
714-713-3B: Window
714-713-4B: Computer
714-713-5B: Door
714-713-6B: Bank Teller
714-714-5B: Taxi
714-715-1B: Alphabet
714-715-2B: Maze Finger
714-715-4B: Calculator
714-715-6B: Bus Stop

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FINAL ASSEMBLY

6. Plumb and level the assembly.

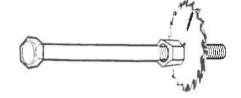
714-713-7B: General Store

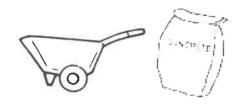




Make sure all fasteners are tight.

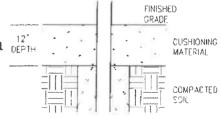
Trim all bolts. No more than two threads may protrude after trimming by installer.

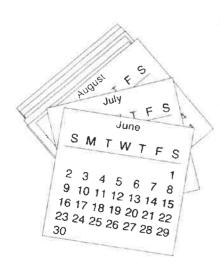




Pour concrete and allow 72 hours to cure.

Install 12" of cushioning material in and around the area of the unit.







Establish a regular maintenance schedule, checking for loose or missing bolts, worn parts, etc.

714-713-3B: 714-713-4B: 714-713-5B:	Puppet Stage Window Computer	714-714-1B: Park Ranger 714-714-2B: Fire Truck 714-714-3B: Police 714-714-4B: Train 714-714-5B: Taxi	714-715-1B: 714-715-2B: 714-715-4B: 714-715-6B:	Maze Finger Calculator
714-713-7B:	General Store	November 5, 1996 Rev. B		

BILL OF MATERIALS

PART NO.	QTY-PER U/M	DESCRIPTION
PART NO.	GIT-PER O/IVI	DESCRIPTION
Model 714-7 713500P 982408 982501P 982628P	2 EA 1 EA 2 EA 1 EA	4 CLAMP HALF RINGS WITH HARDWARE TELEVISION PANEL PANEL SUPPORT RAIL ASSEMBLIES PARTS CARTON
Model 714-7 713500P 982414 982501P 982628P	2 EA 1 EA 2 EA 1 EA	4 CLAMP HALF RINGS WITH HARDWARE PUPPET STAGE PANEL PANEL SUPPORT RAIL ASSEMBLIES PARTS CARTON
Model 714-7 713500P 982420 982501P 982628P	2 EA 1 EA 2 EA 1 EA	4 CLAMP HALF RINGS WITH HARDWARE WINDOW PANEL PANEL SUPPORT RAIL ASSEMBLIES PARTS CARTON
Model 714-7 713500P 982421 982501P 982628P	2 EA 1 EA 2 EA 1 EA 1 EA	4 CLAMP HALF RINGS WITH HARDWARE COMPUTER PANEL PANEL SUPPORT RAIL ASSEMBLIES PARTS CARTON
Model 714-7 713500P 982423 982501P 982628P 983209P	713-5B 2 EA 1 EA 2 EA 1 EA 2 EA 2 EA	4 CLAMP HALF RINGS WITH HARDWARE DOOR PANEL PANEL SUPPORT RAIL ASSEMBLIES PARTS CARTON BRACKET RUNG ASSEMBLY
Model 714-7 713500P 982415 982501P 982628P	713-6B 2 EA 1 EA 1 EA 1 EA	4 CLAMP HALF RINGS WITH HARDWARE BANK TELLER PANEL PANEL SUPPORT RAIL ASSEMBLIES PARTS CARTON

IMAGINATION PANELS BELOW DECK AND IN CLUSTER ARRANGEMENT

714-713-3B: 714-713-4B: 714-713-5B:	Puppet Stage Window Computer	714-714-1B: Park Ranger 714-714-2B: Fire Truck 714-714-3B: Police 714-714-4B: Train 714-714-5B: Taxi	714-715-1B: Alphabet 714-715-2B: Maze Finger 714-715-4B: Calculator 714-715-6B: Bus Stop
714-713-7B:	General Store	November 5, 1996 Rev. B	

PART NO.	OTV DED II/M	DESCRIPTION
PART NO.	QTY-PER U/M	DESCRIPTION
Model 714-	713-7B	
713500P	2 EA	4 CLAMP HALF RINGS WITH HARDWARE
982442	1 EA	GENERAL STORE PANEL
982501P	2 EA 1 EA	PANEL SUPPORT RAIL ASSEMBLIES
982628P	I EA	PARTS CARTON
Model 714-	714-1B	
713500P	2 EA	4 CLAMP HALF RINGS WITH HARDWARE
982411	1 EA	WHEEL PANEL, PARK RANGER
982501P	2 EA	PANEL SUPPORT RAIL ASSEMBLIES
982629P	1 EA	PARTS CARTON
Model 714-	71 <i>4</i> -2R	
713500P	2 EA	4 CLAMP HALF RINGS WITH HARDWARE
982412	1 EA	WHEEL PANEL, FIRE TRUCK
982501P	2 EA	PANEL SUPPORT RAIL ASSEMBLIES
982629P	1 EA	PARTS CARTON
Model 714-7	714-3R	
713500P	2 EA	4 CLAMP HALF RINGS WITH HARDWARE
982413	1 EA	WHEEL PANEL, POLICE CAR
982501P	2 EA	PANEL SUPPORT RAIL ASSEMBLIES
982629P	1 EA	PARTS CARTON
Model 714-7	714-4B	
713500P	2 EA	4 CLAMP HALF RINGS WITH HARDWARE
982424	1 EA	WHEEL PANEL, TRAIN
982501P	2 EA	PANEL SUPPORT RAIL ASSEMBLIES
982629P	1 EA	PARTS CARTON
Model 714-7	714-5B	
713500P	2 EA	4 CLAMP HALF RINGS WITH HARDWARE
982425	1 EA	WHEEL PANEL, TAXI
982501P	2 EA	PANEL SUPPORT RAIL ASSEMBLIES
982629P	1 EA	PARTS CARTON
Model 714-7		
713500P	2 EA	4 CLAMP HALF RINGS WITH HARDWARE
982416	1 EA 2 EA	ALPHABET PANEL
982501F 982628P	2 EA 1 EA	PANEL SUPPORT RAIL ASSEMBLIES PARTS CARTON
0020201	I LA	TAITIS CANTON

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IMAGINATION PANELS BELOW DECK AND IN CLUSTER ARRANGEMENT

714-713-1B: Television
714-713-2B: Puppet Stage
714-713-3B: Window
714-713-4B: Computer
714-713-5B: Door
714-714-5B: Taxi
714-715-6B: Bus Stop

714-713-6B: Bank Teller 714-713-7B: General Store

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PART NO.	QTY-PER U/M	DESCRIPTION
Model 714.7	15 OP	
Model 714-7	13-2D	
713500P	2 EA	4 CLAMP HALF RINGS WITH HARDWARE
982418	1 EA	MAZE FINGER PANEL
982501P	2 EA	PANEL SUPPORT RAIL ASSEMBLIES
982628P	1 EA	PARTS CARTON
0020201		
Model 714-7	15-4B	
713500P	2 EA	4 CLAMP HALF RINGS WITH HARDWARE
982422	1 EA	CALCULATOR PANEL
982501P	2 EA	PANEL SUPPORT RAIL ASSEMBLIES
982628P	1 EA	PARTS CARTON
9020201	I LA	TAITIO ON THOR
Model 714-7	15-6B	
713500P	2 EA	4 CLAMP HALF RINGS WITH HARDWARE
982460	1 EA	BUS STOP PANEL
	2 EA	PANEL SUPPORT RAIL ASSEMBLIES
982501P		
982628P	1 EA	PARTS CARTON

PARTS CARTONS

PARTS CARTON (713500P - 4 CLAMP HALF RINGS WITH HARDWARE) CONTENTS :

104403 4 EA SET SCREW, WASHER HEAD, SELF DRILLING, 1/4 X 1, SS 713100P 4 EA CLAMP HALF RING, KC

PARTS CARTON (982628P) CONTENTS

104166	4 EA	BOLT, BUTTON HEAD, 6-LOBE, 3/8-16 X 1-1/2, SS
104285	12 EA	SET SCREW, SOCKET, 3/8-16 X 3/8, SS
110030	4 EA	NUT, NYLOCK, 3/8-16 X 3/8, SS
117005	8 EA	WASHER, FLAT, 3/8
713101P	4 EA	BAR SOCKET, TC

PARTS CARTON (982629P) CONTENTS

	/22-2	,	
103529	1	EA	1-1/4" PIPE PLUG
104166	4	EA	BOLT, BUTTON HEAD, 6-LOBE, 3/8-16 X 1-1/2, SS
104278	1	EA	BOLT, BUTTON HEAD, 6-LOBE, 1/2-13 X 3, SS
104285	12	EA	SET SCREW, SOCKET, 3/8-16 X 3/8, SS
110030	4	EA	NUT, NYLOCK, 3/8, SS
110061	1	EA	NUT, NYLOCK, 1/2, SS
112596	1	EA	STEERING WHEEL
117005	8	EA	WASHER, FLAT, 3/8
117007	2	EA	WASHER, FLAT, 7/16
713101P	4	EA	BAR SOCKET, KC



PANEL MODELS BELOW DECK AND IN CLUSTER ARRANGEMENTS

714-716B: View Groove

714-875B: Bubble

714-876B: Hole

714-904B: Clock

714-923B: Color Ball 714-924B: Letter Ball

714-925B: Number Ball

714-982-2B: Number Finger Maze

714-982-3B: Finger Maze

714-980-5B: Flat Mirror

714-980-4B: Convex Mirror

714-982-4B: Letter Finger Maze

714-983-1B: Marble Race

714-983-2B: Motor Skill

Section 15 and 18 and 18



714-875B (shown)



714-904B



714-716B



714-923B



714-876B



714-924B 714-925B



714-980-4B 714-980-5B



714-982-2B





714-982-3B 714-982-4B

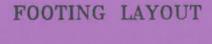
714-983-1B

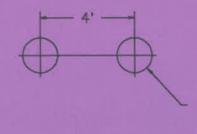
714-983-2B

TOP VIEW

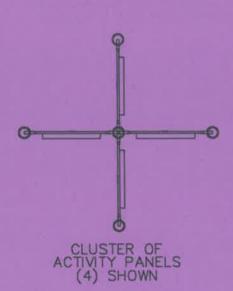


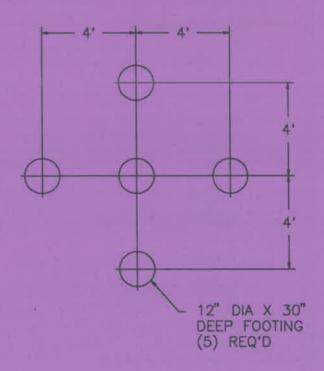
FREESTANDING ACTIVITY PANEL





12" DIA X 30" DEEP FOOTING (2) REQ'D





PANEL MODELS BELOW DECK AND IN CLUSTER ARRANGEMENTS

PART I - GENERAL

A. Ground Space Required: not applicable for these models

B. Concrete Required:

.125 cubic yards per post for models in a Cluster Configurations.

No additional concrete is required for any of the Below Deck models.

PART II INSTRUCTIONS AND IMPORTANT NOTES

Important Notes:

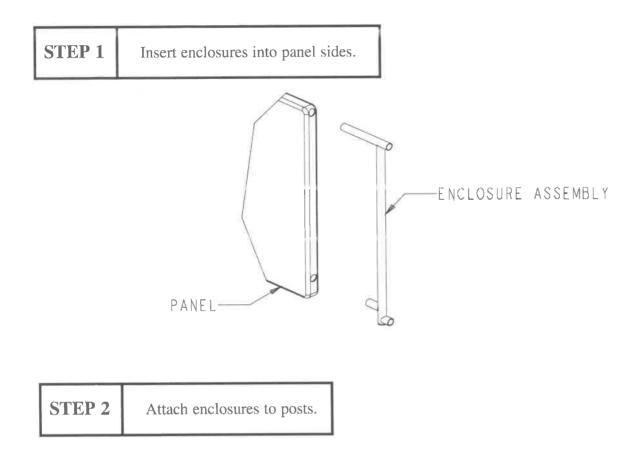
- 1. Before installing or erecting this equipment, please read and comply with all applicable recommendations in Safety Brochure 100 enclosed. If for some reason this brochure is missing, contact your local Miracle sales representative for a copy.
- 2. Before starting construction, check with all utility companies for exact locations of underground utilities.
- 3. When designing areas for footings and the area under and adjacent to all equipment, consideration should be given to soil types and subgrade characteristics. The purchaser and/or installing contractor will be responsible for proper installation and insuring that abnormal and unsafe compaction does not occur in these areas, which are generally recommended to be under and a minimum of 6' out from the edges of all play structures.
- 4. It is the purchaser's responsibility to maintain these areas properly after installation. It is recommended that compaction tests be made several times per year. When compaction occurs, it is recommended that the area affected be scarified or additional pea gravel, sand, redwood bark or coarse wood chips be added until the area is soft and resilient.

Footing Instructions (for models in cluster configs.):

- 1. Do not pour concrete for component activity footings until all components in your deck system have been installed per installation instructions, leveled, plumbed and braced in position.
- 2. Dig the footings and place posts.

Refer to Footing Details Installation.

PANEL MODELS BELOW DECK AND IN CLUSTER ARRANGEMENTS



Refer to $Versa-Lok^{\circledR}$ Clamp Assembly Installation.

FINAL STEP Refer to *Final Assembly* Installation.



FINAL ASSEMBLY

Neav 29 1907 Rev. A

Plumb and level the assembly.

8 000 8



Make sure all fasteners are tight.

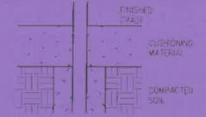
Trim all bolts. No more than two threads may protrude after trimming by installer.





Pour concrete in all remaining footings and allow 72 hours to cure.

Install cushioning material in and around the area required for the unit.







Establish a regular maintenance schedule, checking for loose or missing bolts, worn parts, etc.



					W.O. PAGE:	
CITY OF BROOF	KLYN TION ENUE	PARK - GARY N.		LEGEND: * -> M **-> P	ODEL PARTS CARTON PAGE OF PARTS LIST ON SUMMARY.	Ī
BROOKLIN PAR	M PHY	22443	l,	FOR PARTS CART	ON SUMMARY.	
QUANTITY	MOD:	EL/COMPONENT	DF	SCRIPTION		_
3	*	714502	DF	CCK SOUARE W/H'WAR	F.	
3 3 12 3 3 3 12	**	713266 104488 116021 116022 116041 117007 713102	PARTS CAF	CCK SQUARE W/H'WAR RTON 714502 BOLT 1/2-13 X MIRACLE ID LAB WARNING LABEL MIRACLE ID LAB WASHER 7/16 FL SUPPORT DECK-C.	1 1/4 BHCS 6 LOBE EL - GENERIC PLAYGROUND EL - KIDS' CHOICE AT 18-8 SS ASTING MPS DG 1 1/4 HEX WSHR H	
48		713010DG 713502DG	ł	5 IN. CLAMPING SQ DECK, COATED,	RING-1/2 CLAMP D PVILLE DG	
1 4 16 16 16 8 8 8 4 1	*	7145385 713500DG 104403 104749 713010DG 982276GV 982375DG 982457DG 982900DG 982924DG 982939DG	CE PARTS C	NTER STAGE OCTAGOR ARTON (4) 1/2 CLAR SCREW 1/4-14 X 1/4-20X 1-1/4, 5 IN. CLAMPING POST CONNECTOR, GA POST ASSY, 8-ARM POST COVER, 6 & 8 DECK EDGE ASSY 8SI DECK CNTR ASSY 8SI DECK CNTR ASSY 8SI TON 8-SIDE CS DECI 3/8-16 X 2 BUT 1/2 - 13 X 5 1 BOLT 3/8-16 X 2 BOLT 3/8-16 X 2 SCREW 1/4-14 X 1/2X X 1-1/2 SI	N 5' DECK FOR ROOF MPS DG 1 1/4 HEX WSHR H 6 LOBE BHD W/PAT RING-1/2 CLAMP D ALV PTD DG arm DG IDE, PVC'D DG IDE, PVC'D DG DE 5FT PTD DG	
1 4 8 16 28 48 8 40 1 1 1 90	**	982958 104097 104165 104166 104262 104403 104746 110030 116021 116022 116040 117071	PARTS CAR	NUT 3/8-16 NYLO MIRACLE ID LABI WARNING LABEL I MIRACLE ID LABI	OCK 18-8 SS EL - GENERIC	

^{**}CONTINUED**

WORK ORDER:	43514	1 CUST #: !	5544A04	SHIP DATE:	W.O. PA	AGE: 2
CITY OF BROC PARK & RECRA 5200 85TH AV	OKLYN F TION - ENUE N	PARK - GARY I.		LEGEND: * -> M **-> F REFER TO LAST FOR PARTS CART	ODEL ARTS CARTON PAGE OF PARTS	S LIST
DROOKLIN IAN	CIC IIII	33 4 4 3		FOR PARTS CART	ON SUMMARY.	
QUANTITY	MODE	L/COMPONENT	DE	SCRIPTION		
12 12	*	714552 713552DG	PC	OST GALV 5" OD X 1 POST ASSY 5" O.D.	.36" X 136"	DG
3 3	*	714555 713555DG	PC	OST 5" O.D. X 76" POST ASSY 5" O.D.	(GROUND LEVEL X 76"	L ITEMS) DG
1 1 1 1 4 2 2 4 4 6 2 2 1 1 1 4 4 4 4 1 1 2 2 2 2 4 4 4 2 2 2 2	* **	714700 112590SN 112605SN 713001DG 104068 104285 104286 104750 117005 117105 713002DG 713003DG 713110DB 713500DG 104403 104749 713010DG 978930BK 985281DG 104285 104286 104750 713002DG 713003DG 979297	PARTS (SIDE-BY-SIDE W/O DOUBLE WIDE SLIDE WIDE SLIDE TRANS. CARTON 714700 3/8-16 X 1 1/2 BOLT 3/8-16 X BOLT 3/8-16 X 1/4-20X5/8"6LO WASHER 3/8 FLA WASHER 3/8 FLA WASHER 3/8 INT 5IN BAR SOCKET SIN BAR SOCKET CARTON (4) 1/2 CLA SCREW 1/4-14 X 1/4-20X 1-1/4, 5 IN. CLAMPING FRONT LEG ROCKITE CARTON 714737 DG BOLT 3/8-16 X BOLT 3/8-16 X 1/4-20X5/8"6LO 5IN BAR SOCKET	, 6 LOBE BHD WE STING-1/2 CLASE SKI SLIDE BIS 3/8 SOCKET SINGLE BHCS 6 LOBE BHCS STILL BHCS STILL BHCS STILL BHCS STILL BHCS STILL BHCS STILL BHCS BHCS STILL BHCS BHCS BHCS BHCS BHCS BHCS BHCS BHCS	W/PAT AMP D K ET SC E, 18 S PAIN
1	*	7147142	Pi	ANEL WHEEL FIRE T	RUCK	

WORK ORDER:	4351	41 CUST #:	5544A04	SHIP DATE:	W.O. PAGE: 3	;
CITY OF BROOPARK & RECRA 5200 85TH AV BROOKLYN PAR	KLYN TION ENUE K MN	PARK - GARY N. 55443	Ī	LEGEND: * -> M **-> F REFER TO LAST FOR PARTS CART	ODEL PARTS CARTON PAGE OF PARTS LIST ON SUMMARY.	
QUANTITY	MOD.	EL/COMPONENT	D)	SCRIPTION		
1 1 1 2 2 1 2 4 4 1 1 1 8 2 2 2	**	982412 982501DB 982630DG 103529 104097 104166 104278 104285 104750 110030 110061 112596 117005 117007 713002DG 713003DG	PARTS (PANEL ROUTERED FI RUNG BRACKET ASSY CARTON WHEEL PANEL 1 1/4" PIPE PL 3/8-16 X 2 BUT BOLT 3/8-16 X 1/2-13 X 3" BH BOLT 3/8-16 X 1/4-20X5/8"6LO NUT 3/8-16 NYL 1/2-13 NYLOK H PLASTIC SOLID WASHER 3/8 FLA WASHER 7/16 FL 5IN BAR SOCKET 5IN BAR SOCKET	RE TRUCK PANEL DB S DG UG FOR 1 7/16" ID TON HD SS WAXED 1 1/2 BHCS 6 LOBE D 6 LOB W/PIN 3/8 SOCKET SET SC B W/P BHCS SS OCK 18-8 SS EX NUT WXD SS STEERING WHEEL T 18-8 SS AT 18-8 SS - TOP HALF, PAIN - BOTTOM HALF, P	
0		104403 104749 713010DG 982413 982501DB		PANEL ROUTERED POR	1 1 / / HEV LICHE H	

WORK ORDER:	435141 CUST #: 5	5544A04 SHIP DATE:	W.O. PAGE:	4
CITY OF BROOM PARK & RECRAT	KLYN PARK TION - GARY ENUE N.	LEGEND: * -> 1 REFER TO LAST FOR PARTS CAR DESCRIPTION	MODEL PARTS CARTON	
BROOKLYN PARI	K MN 55443	REFER TO LAST FOR PARTS CAR	PAGE OF PARTS LIST TON SUMMARY.	
QUANTITY	MODEL/COMPONENT	DESCRIPTION		
1 1 2 1 2 4 2 4 1 2 2 1	* 714719 713202DB ** 713259DG 104166 104262 104285 104750 110030 117005 117105 713002DG 713003DG 983334DB	CLIFF CLIMBER 3 & VERT CLIMBER DEC PARTS CARTON - CLIMBERS BOLT 3/8-16 X BOLT 3/8-16 X BOLT 3/8-16 X 1/4-20X5/8"6L NUT 3/8-16 NY WASHER 3/8 FL WASHER 3/8 IN 5IN BAR SOCKE 5IN BAR SOCKE CLIFF CLIMBER, 5	5FT DECK K ENC. DB DG 1 1/2 BHCS 6 LOBE 2 1/4 BHCS 6 LOBE 3/8 SOCKET SET SC OB W/P BHCS SS LOCK 18-8 SS AT 18-8 SS TERNAL TOOTH LOCK T - TOP HALF, PAIN T - BOTTOM HALF, P FT DECK DB	
1 1 2 1 2 4 2 4 1 2 2 1	* 714721 713202DB ** 713259DG 104166 104262 104285 104750 110030 117005 117105 713002DG 713003DG 983648DB	CANYON CLIMBER, 3 VERT CLIMBER DEC PARTS CARTON - CLIMBERS BOLT 3/8-16 X BOLT 3/8-16 X BOLT 3/8-16 X 1/4-20X5/8"6L NUT 3/8-16 NY WASHER 3/8 FL WASHER 3/8 IN 5IN BAR SOCKE CANYON CLIMBER 5	& 5FT DECKS K ENC. DB DG 1 1/2 BHCS 6 LOBE 2 1/4 BHCS 6 LOBE 3/8 SOCKET SET SC OB W/P BHCS SS LOCK 18-8 SS LOCK 18-8 SS AT 18-8 SS TERNAL TOOTH LOCK T - TOP HALF, PAIN T - BOTTOM HALF, P	
1 2 1 4 1 6 8 12 4 8	* 714723 983638DB 983700DG 983725DB ** 983773DG 104155 104166 104262 104285 104750	BOLT 3/8-16 X BOLT 3/8-16 X BOLT 3/8-16 X	DB	

^{**}CONTINUED**

WORK ORDER:	433141 C081 #:	JJ44A04 BHIF DAIE. W.O. FAGE. J
2700 82TH WAI	TION - GARY	LEGEND: * -> MODEL **-> PARTS CARTON REFER TO LAST PAGE OF PARTS LIST FOR PARTS CARTON SUMMARY.
QUANTITY	MODEL/COMPONENT	
24 6 30 12 4 4	110030 110061 117005 117020 713002DG 713003DG 901897	NUT 3/8-16 NYLOCK 18-8 SS 1/2-13 NYLOK HEX NUT WXD SS WASHER 3/8 FLAT 18-8 SS WASHER 1/2 FLAT 18-8 SS 5IN BAR SOCKET - TOP HALF, PAIN 5IN BAR SOCKET - BOTTOM HALF, P SPACER
1	* 714729	8' SERPENT TREK, DECK TO END LADDER
2 2	714552 713552DG	
1 1 4 8 8 8 8 8 4 4 4 8	7147225 ** 982401DG 104285 104403 104749 104750 117103 713002DG 713003DG 713010DG 983364DB	1/4-20x5/8"6LOB W/P BHCS SS 1/4"INTRNL TOOTH LOK WASHER SS 5IN BAR SOCKET - TOP HALF, PAI 5IN BAR SOCKET - BOTTOM HALF, 5 IN. CLAMPING RING-1/2 CLAMP
1 2 1 4 2 4 4 8 2 2	7148135 713212DB ** 982399DG 104166 104285 104750 110030 117005 713002DG 713003DG	DECK ENCLOSURE FOR OVERHEAD CLIMBE ENCLOS ASSY,O'HEAD CLMBRS DB PARTS CARTON 714-813-5 DG BOLT 3/8-16 X 1 1/2 BHCS 6 LOB BOLT 3/8-16 X 3/8 SOCKET SET S 1/4-20X5/8"6LOB W/P BHCS SS NUT 3/8-16 NYLOCK 18-8 SS WASHER 3/8 FLAT 18-8 SS 5IN BAR SOCKET - TOP HALF, PAI 5IN BAR SOCKET - BOTTOM HALF,
1 2 4 8	7148155 ** 713661DG 104285 104403	END LADDER FOR OVERHEAD CLIMBERS O PARTS CARTON 714843 BOLT 3/8-16 X 3/8 SOCKET SET S SCREW 1/4-14 X 1 1/4 HEX WSHR

WORK ORDER: 435141 CUST #: 5544A04 SHIP DATE: W.O. PAGE: 5

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WORK ORDER:	435141	CUST #: 5	544A04	SHIP DATE:	W.O. PAGE:	6
CITY OF BROOM PARK & RECRA 5200 85TH AVI BROOKLYN PARI	KLYN PAR TION - G ENUE N. K MN 55	K ARY 443		SHIP DATE: LEGEND: * -> : **-> REFER TO LAST FOR PARTS CAR DESCRIPTION	MODEL PARTS CARTON PAGE OF PARTS LIS TON SUMMARY.	Т
QUANTITY	MODEL/	COMPONENT		DESCRIPTION		
8 8 4 4 8		104749 104750 117103 713002DG 713003DG 713010DG 982201DB		1/4-20X 1-1/ 1/4-20X5/8"6 1/4"INTRNL T 5IN BAR SOCK 5IN BAR SOCK 5 IN. CLAMPI VERTICAL LADDER	4, 6 LOBE BHD W/PA LOB W/P BHCS SS OOTH LOK WASHER SS ET - TOP HALF, PAI ET - BOTTOM HALF, NG RING-1/2 CLAMP -OH CLMBR KC DE	3
1 4 8 1 54 32 32 16 32 32 32 32 32	* 7	14730 983322DB 983392DG 983395DB 103543DB 104068 104356 104403 110031 110231 117001 117005	PARTS	TREEHOUSE ROOF FOR TREEHOUSE ROOF, ROOF MOUNT RECEI CARTON , 730 4" CYCLONE PL 3/8-16 X 1 1/ 1/4"-20 X 1 1 SCREW 1/4-14 3/8-16 HEX NU 1/4-20 RUBBER WASHER, 1/4 F WASHER 3/8 FL	OCTAGON DECK 1/4 SECTION MOLDED VER, PTD DG UG DB 2 HHCS, SS /4" HHCS SS X 1 1/4 HEX WSHR F T 304 SS WELL-NUT, #J-1420 LAT SS LAT 18-8 SS) I
1 1 1 2 1 2 4 2 4 1 2 2 1	* 7 **	714731 713202DB 713259DG 104166 104262 104285 104750 110030 117005 117105 713002DG 713003DG 983451DB	PARTS	BOLT 3/8-16 X BOLT 3/8-16 X 1/4-20X5/8"61 NUT 3/8-16 NY WASHER 3/8 FI WASHER 3/8 IN 5IN BAR SOCKE	(3' & 5' DECK) K ENC. DB DG 1 1/2 BHCS 6 LOBE 2 1/4 BHCS 6 LOBE 3/8 SOCKET SET SO OB W/P BHCS SS LOCK 18-8 SS AT 18-8 SS AT 18-8 SS AT 18-8 SS AT - TOP HALF, PAIN CT - BOTTOM HALF, I	1
1	* ~ ~	7148002		SLD WAVE ROCKITE 1	.0' 5' DK	

WORK ORDER:	4351	41 CUST #:	5544A04	SHIP DATE:	W.O. PAGE:	7
CITY OF BROOM PARK & RECRA! 5200 85TH AVI BROOKLYN PARI	KLYN 1 TION - ENUE 1 K MN	PARK - GARY N. 55443		LEGEND: * -> MOD **-> PAR REFER TO LAST PA FOR PARTS CARTON ESCRIPTION	EL TS CARTON GE OF PARTS LIS'	r
QUANTITY	MODE	EL/COMPONENT	D	ESCRIPTION		
12 8 4 4 18 2 4 18 8 40 36		104040 104049 104068 104227 104262 104286 110030 117003 117005 117007		WAVE SECION ROCKITE ENTRY SECTION ROCKI HURRICANE & WAVE SL CARTON 7148002 4" CYCLONE PLUG 5/16-18 X 1 BHD 3/8-16 X 1 1/2 H 3/8-16 X 1 3/4 KT 3/8-16 X 1 3/4 H BOLT 3/8-16 X 2 BOLT 3/8-16 X 1 NUT 3/8-16 NYLOC WASHER 5/16 FLAT WASHER 5/16 FLAT WASHER 3/8 FLAT WASHER 3/8 INTERI LEG SUPPORT BRAC RUNG, 41" LEG-38" "L" ROTO WAY LEG-56" "L" ASSY PA FRONT LEG CYCLONE SI SLIDE ENTRY PANEL SI N 7148002/8012/8022/8 BOLT 3/8-16 X 1 BOLT 3/8-16 X 1 BOLT 3/8-16 X 3/8 1/4-20X5/8"6LOB WASHER 3/8 INTERI SIN BAR SOCKET - 5IN BAR SOCKET - 5IN BAR SOCKET -	SN BLT SKT SS SET SS HCS, SS H TAP, SS 1/4 BHCS 6 LOBE BHCS 6 LOBE, 18 K 18-8 SS 18-8 SS 18-8 SS 18-8 SS	
1 1 1 2 1 2	*	714808 713166DB 713202DB 713259DG 104166 104262 104285 104750	PARTS (LIMBER POLE 5' OR 6'C POLE W/INSERT CLIMB: VERT CLIMBER DECK ENCARTON - CLIMBERS BOLT 3/8-16 X 1 : BOLT 3/8-16 X 2 : BOLT 3/8-16 X 3/8 1/4-20X5/8"6LOB W	1/2 BHCS 6 LOBE 1/4 BHCS 6 LOBE 8 SOCKET SET SC	

WORK ORDER:	435141	CUST #: 5	544A04	SHIP DATE:	W.O. PAGE:	8
CITY OF BROOF PARK & RECRAT 5200 85TH AVE	KLYN PAF CION - C	RK SARY		LEGEND: * -> : **-> :	MODEL PARTS CARTON PAGE OF PARTS LIS TON SUMMARY.	т
BROOKLIN PARI	X MM 31)443		FOR PARTS CAR	TON SUMMARY.	
QUANTITY	MODEL	COMPONENT	DE	SCRIPTION		
2 4 1 2 2		110030 117005 117105 713002DG 713003DG		NUT 3/8-16 NY WASHER 3/8 FL WASHER 3/8 IN 5IN BAR SOCKE 5IN BAR SOCKE	LOCK 18-8 SS AT 18-8 SS TERNAL TOOTH LOCK T - TOP HALF, PAIN T - BOTTOM HALF, E	1
1 1 6 2 2 4 2 8 6 2 2 1 1	* **	714907 713257DG 104166 104285 104286 104750 110030 117005 117105 713002DG 713003DG 978923BK 982652SN 983076DB	SI PARTS (LD TWISTER ROCKIT CARTON 714907 BOLT 3/8-16 X BOLT 3/8-16 X BOLT 3/8-16 X 1/4-20X5/8"6L NUT 3/8-16 NY WASHER 3/8 FI WASHER 3/8 IN 5IN BAR SOCKE 5IN BAR SOCKE FRONT LEG CYCLON TWISTER SLIDE DE ENCLOSURE TWISTE	DG 1 1/2 BHCS 6 LOBE 3/8 SOCKET SET SO 1 BHCS 6 LOBE, 18 0B W/P BHCS SS LOCK 18-8 SS AT 18-8 SS PTERNAL TOOTH LOCK T - TOP HALF, PAIR E SLIDE BLACK RILLED TC R SLIDE KID'S CHO	
1 1 1 4 2 4 2 6 2 2 2 2 1	*	104166		BOLT 3/8-16 2 BOLT 3/8-16 2 1/4-20X5/8"61 NUT 3/8-16 NY WASHER 3/8 FI WASHER 3/8 IN 5IN BAR SOCKI	5'&6'6"DK DP CLIMBER DB DP DG K 1 1/2 BHCS 6 LOB K 3/8 SOCKET SET S LOB W/P BHCS SS LLOCK 18-8 SS LAT 18-8 SS NTERNAL TOOTH LOCK ET - TOP HALF, PAI ET - BOTTOM HALF, MBER DB	C N P
1	*	7149595 713248DG		TAIR ATA W/O SPO CARTON STAIRS	KES(3'-5') DG **CONTINUE	D**

WORK ORDER:	435141	CUST #:	5544A04	SHIP DATE:	W.O. PAGE:	9			
CITY OF BROOF PARK & RECRAT 5200 85TH AVE	KLYN PARK FION - GAR ENUE N.	Y.	Ī	LEGEND: * -> MODEL **-> PARTS CARTON REFER TO LAST PAGE OF PARTS LIST FOR PARTS CARTON SUMMARY. DESCRIPTION					
BROOKLYN PARK	K MN 5544.	3		FOR PARTS CARTON S	UMMARY.				
QUANTITY	MODEL/CO	MPONENT	D	ESCRIPTION					
8 4 8 4 8 6 8 10 16 6 4 4 6 1 2 2 2	713 713 713 983	104155 104166 104262 104285 104750 110030 110061 117005 117007 117105 713002DG 713003DG 901897 3414DG 3448DB 3449DB		BOLT 1/2-13 X 2 1/ BOLT 3/8-16 X 1 1/ BOLT 3/8-16 X 2 1/ BOLT 3/8-16 X 2 1/ BOLT 3/8-16 X 3/8 1/4-20X5/8"6LOB W/ NUT 3/8-16 NYLOCK 1/2-13 NYLOK HEX N' WASHER 3/8 FLAT 18 WASHER 3/8 FLAT 1 WASHER 3/8 INTERNA 5IN BAR SOCKET - TO 5IN BAR SOCKET - TO 5PACER STAIR ATA 24" DK TO DE ENCLOS ASSY H'RAIL TO DECK ENCLOS ASSY BOTTO H'RAIL ASSY STAIR W/O	4 BHCS 6 LOBE 2 BHCS 6 LOBE 4 BHCS 6 LOBE SOCKET SET SC P BHCS SS 18-8 SS UT WXD SS -8 SS 8-8 SS L TOOTH LOCK OP HALF, PAIN OTTOM HALF, P K DG P DB OM DB SPKS DB				
1 1 4 4 2 10 2 4 1 4 9 6 18 4 8 2 2 4 2 1	850	9621 3455DG 104153 104155 104166 104262 104285 104357 104441 104750 110030 110061 117005 117007 117049 117105 713002DG 713003DG 901897 976468 184SNDB	PARTS	LD CYC 8' STEPS 5' DECIDARTON CYCLONE 1/2-13 X 2 HHCS, SS BOLT 1/2-13 X 2 1/4 BOLT 3/8-16 X 1 1/5 BOLT 3/8-16 X 2 1/4 BOLT 3/8-16 X 2 1/4 BOLT 3/8-16 X 3/8 SCR.#10 X 1 ONE WAS 1/2-13 X 1-1/2 BHD 1/4-20X5/8"6LOB W/1 NUT 3/8-16 NYLOCK S1/2-13 NYLOK HEX NI WASHER 3/8 FLAT 18-WASHER 3/8 FLAT 18-WASHER 3/8 INTERNAL 5IN BAR SOCKET - TO 5IN BAR SOCKET - TO 5IN BAR SOCKET - BO SPACER BACK UP FLANGE 1/4* PLATFORM CANOPY SAND/I FRONT LEG CYCLONE SLII	L TOOTH LOCK OP HALF, PAIN OTTOM HALF, P "X1"X6" DARK BLUE				

W.O. PAGE: 10 WORK ORDER: 435141 CUST #: 5544A04 SHIP DATE: LEGEND: * -> MODEL CITY OF BROOKLYN PARK **-> PARTS CARTON PARK & RECRATION - GARY 5200 85TH AVENUE N. REFER TO LAST PAGE OF PARTS LIST BROOKLYN PARK MN 55443 FOR PARTS CARTON SUMMARY. _____ QUANTITY MODEL/COMPONENT DESCRIPTION PARTS CARTON (2) 4" PLUGS 980892SN 808925N __ 103543SN __ 4" CYCLONE PLUG SN 2 DECK ENCLOSURE-CYCLONE SLIDES DB 2 983469DB STAIR ENCLOSURE 714-962-1 DB 2 983529DB PVC STAIR 714-962-1 DG 983531DG CYCLONE SLIDE ASSY 714-962-1 983534S 1 2 1/2" CYCLONE PLUG SN 4" CYCLONE PLUG SN 3/8-16 X 1 1/2 HHCS, SS BOLT 1/2-13 X 1 BHCS SOCKET, 3/8-16 X 1 3/4 HH TAP, SS NUT 3/8-16 HEX - ZINC PLATE CLR ADHESIVE PL PRO 2000 11 1/2 TURN SECTION CYCLONE SN EXIT SECTION CYCLONE SN 1/4 TURN SECT ROTO SN CYCLONE PLATFORM ROCKITE SN WASHER 3/8 FLAT 18-8 SS WASHER 7/16 FLAT 18-8 SS WASHER 1/2 FLAT 18-8 SS BACK UP FLANGE 1/4"X1"X6" TUBE 4.500 OD X 7 GA GALV X BOLT 1/2-13 X 1 1/4 BHCS 6 L TRANSFER POINT W/SINGLE STEP (3' DECK) * 714965 1 KC TP BTM STEP T-LEG PTD BK 713869BK KC TP BTM STEP ASSY PVC 713872DG 1 PARTS CARTON KC TP DG 713894DG BOLT 3/8-16 X 1 1/2 BHCS 6 LOBE BOLT 3/8-16 X 2 1/4 BHCS 6 LOBE 104166 29 104262 6 BOLT 3/8-16 X 3/8 SOCKET SET SC 104285 2 1/4-20X5/8"6LOB W/P BHCS SS 104750 NUT 3/8-16 NYLOCK 18-8 SS 110030 3.1 WASHER 3/8 FLAT 18-8 SS 117005 WASHER 3/8 INTERNAL TOOTH LOCK 117105 5IN BAR SOCKET - TOP HALF, PAIN 5IN BAR SOCKET - BOTTOM HALF, P 713002DG

SPACER

STAIR HANGER PAINTED DG

ATA STAIRS 21-3/4 RISE, PVC

713003DG

983155DG

901897

982976DG

2

				SHIP DATE:	W.O.	PAGE:	11
CITY OF BROC PARK & RECRA 5200 85TH AV BROOKLYN PAR	KLYN TION ENUE K MN	PARK - GARY N. 55443		LEGEND: * -> **-> REFER TO LAST FOR PARTS CAF	PARTS CARTO	RTS LIST	
QUANTITY	MOD	EL/COMPONENT	17				
1 1 2		982987DG 983000DB 983006DB		ATA TRANSFER PT TP HANDRAIL ASSY HANDRAIL ATA STA	DECK, PVC 7, PTD AIRS 3FT,PTD	DG DB DB	
1 2 8 8 8	* **	7149831B 713500DG 104403 104749 713010DG	PARTS	ANEL MARBLE RACE CARTON (4) 1/2 CL SCREW 1/4-14 1/4-20X 1-1/4 5 IN. CLAMPIN CARTON 714-904B	BELOW DK AMPS DG X 1 1/4 HEX , 6 LOBE BHI IG RING-1/2 C	WSHR H D W/PAT CLAMP D	
8 4 4 2 1		104285 104750 713002DG 713003DG 982477DB 984084SN		1/4-20X5/8"6L 5IN BAR SOCKE 5IN BAR SOCKE PANEL ENCLOSURE- MARBLE RACES PAN	OB W/P BHCS T - TOP HALF T - BOTTOM H KC BD EL ASSEMBLY,	SET SC SS F, PAIN HALF, P DB KC SN	
1 1 2 2 4 2 4 2 2 2 1	* **	7149832 713009DG 104166 104285 104750 110030 117005 713002DG 713003DG 982471DB 984101SN	PARTS	ANEL MOTOR SKILLS CARTON PANELS BOLT 3/8-16 X BOLT 3/8-16 X 1/4-20X5/8"6L NUT 3/8-16 NY WASHER 3/8 FL 5IN BAR SOCKE 5IN BAR SOCKE ENCLOSURE ASSY, MOTOR SKILLS PAN	DG 1 1/2 BHCS 3/8 SOCKET OB W/P BHCS LOCK 18-8 SS T - TOP HALF T - BOTTOM H PAINTED EL ASSEMBLY,	6 LOBE SET SC SS , PAIN ALF, P DB KC SN	
1 1 8 4 8 4 8	* **	7149905 713248DG 104155 104166 104262 104285 104750		TAIR W/O SPOKES (CARTON STAIRS BOLT 1/2-13 X BOLT 3/8-16 X BOLT 3/8-16 X BOLT 3/8-16 X 1/4-20X5/8"6L	DG 2 1/4 BHCS 1 1/2 BHCS 2 1/4 BHCS 3/8 SOCKET	6 LOBE 6 LOBE SET SC	

WORK ORDER: 435141 CUST #: 5544A04 SHIP DATE: W.O. PAGE: 12 LEGEND: * -> MODEL CITY OF BROOKLYN PARK **-> PARTS CARTON PARK & RECRATION - GARY 5200 85TH AVENUE N. REFER TO LAST PAGE OF PARTS LIST BROOKLYN PARK MN 55443 FOR PARTS CARTON SUMMARY. QUANTITY MODEL/COMPONENT DESCRIPTION NUT 3/8-16 NYLOCK 18-8 SS 110030 1/2-13 NYLOK HEX NUT WXD SS 8 110061 WASHER 3/8 FLAT 18-8 SS 117005 1.0 WASHER 7/16 FLAT 18-8 SS WASHER 3/8 INTERNAL TOOTH LOCK 117007 16 117105 6 713002DG 5IN BAR SOCKET - TOP HALF, PAIN 5IN BAR SOCKET - TOF MALE, P 5IN BAR SOCKET - BOTTOM HALF, P SPACER 4 713003DG 4 901897 6 STAIR STD 24" DK TO DK 713404DG 713448DB 713449DB 981941DB 1 ENCLOS ASSY H'RAIL TOP DB
DECK ENCLOS ASSY BOTTOM DB
H'RAIL ASSY STAIR W/O SPKS DB CARGO LADDER (5' DECK) 714995 1 713110DB ANCHOR-CARGO NET W/RUNGS RUNG, 41" 1 982553DB 1 CARGO NET W/RUNGS 5'DK PVC 982555DG 1 983100DG PARTS CARTON 714-995 DG 1 104097 3/8-16 X 2 BUTTON HD SS WAXED 4 BOLT 3/8-16 X 3/8 SOCKET SET SC 104285 2 1/4-20X5/8"6LOB W/P BHCS SS 104750 4 NUT 3/8-16 NYLOCK 18-8 SS 110030 4 WASHER 3/8 FLAT 18-8 SS 117005 8 5IN BAR SOCKET - TOP HALF, PAIN 713002DG 2

TOTAL ORDER WEIGHT 7,651.00

5IN BAR SOCKET - BOTTOM HALF, P

CUSTOMER SERVICE KIT KC

POST & PVC GREEN ACCENTS & ROOF ROYAL BLUE ROCKITE SAND CANOPY SAND/ROYAL BLUE

713003DG

Mark For: CITY PARK

* 714999

DRIVER MUST CALL 48 HOURS BEFORE DELIVER

RON OTTO

1

612-437-7711

WORK ORDER: 435141 CUST #: 5544A04 SHIP DATE: W.O. PAGE: 13 CITY OF BROOKLYN PARK LEGEND: * -> MODEL PARK & RECRATION - GARY **-> PARTS CARTON 5200 85TH AVENUE N. BROOKLYN PARK MN 55443 REFER TO LAST PAGE OF PARTS LIST FOR PARTS CARTON SUMMARY. ______ OUANTITY MODEL/COMPONENT DESCRIPTION

PARTS CARTON SUMMARY: MODEL. PARTS CARTON DECK SOUARE W/H'WARE 714502 PARTS CARTON 714502

PARTS CARTON (4) 1/2 CLAMPS

CENTER STAGE OCTAGON 5' DECK F

PARTS CARTON (4) 1/2 CLAMPS

PARTS CARTON 8-SIDE CS DECK

POST CALVE 100 1126 713266 713500DG 7145385 713500DG 982958 POST GALV 5" OD X 136" POST 5" O.D. X 76" (GROUND LEV 714552 714555 5' SIDE-BY-SIDE W/CANOPY (3' D 714700 5' SIDE-BY-SIDE W/CANOPY (3
PARTS CARTON 714700
PARTS CARTON (4) 1/2 CLAMPS
PARTS CARTON 714737 DG
PANEL WHEEL FIRE TRUCK
PARTS CARTON WHEEL PANELS
PANEL WHEEL POLICE BELOW DK
PARTS CARTON (4) 1/2 CLAMPS
PARTS CARTON BEL DK PANELS
CLIEBE CLIMBER 3 6 5 FT DECK 713001DG 713500DG 985281DG 7147142 982630DG 7147143B 713500DG 982629DG CLIFF CLIMBER 3 & 5FT DECK PARTS CARTON - CLIMBERS CANYON CLIMBER, 3 & 5FT DECKS 714719 713259DG 714721 PARTS CARTON - CLIMBERS 713259DG 8' BURMA BRIDGE 714723 983773DG PARTS CARTON, BURMA BRIDGE DG 8' SERPENT TREK, DECK TO END L 714729 982401DG PARTS CARTON 714-863-5 982399DG 713661DG PARTS CARTON 714-813-5 PARTS CARTON 714843 TREEHOUSE ROOF FOR OCTAGON DEC 714730 PARTS CARTON , 730
TRAP DOOR CLIMBER (3' & 5' DEC PARTS CARTON - CLIMBERS
SLD WAVE ROCKITE 10' 5' DK
PARTS CARTON 7148002
PRT CTN 7148002/8012/8022/8272
CLIMBER POLE 5' OR 6'6" DK 983395DB 714731 713259DG 7148002 713006SN 984069DG PARTS CARTON - CLIMBERS 714808 713259DG SLD TWISTER ROCKITE 3' DK PARTS CARTON 714907 714907 713257DG

WORK ORDER: 435141 CUST #: 5544A04 SHIP DATE:

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CITY OF BROOKLYN PARK PARK & RECRATION - GARY 5200 85TH AVENUE N. BROOKLYN PARK MN 55443

LEGEND: * -> MODEL

**-> PARTS CARTON

REFER TO LAST PAGE OF PARTS LIST FOR PARTS CARTON SUMMARY.

OUANTITY MODEL/COMPONENT

DESCRIPTION

CLMBR CURVED LOOP 5'&6'6"DK 714943 713262DG STAIR ATA W/O SPOKES(3'-5')
PARTS CAPTON CTATE 7149595 713248DG PARTS CARTON STAIRS SLD CYC 8' STEPS 5' DECK 7149621 713455DG PARTS CARTON CYCLONE PARTS CARTON (2) 4" PLUGS TRANSFER POINT W/SINGLE STEP (980892SN 714965 PARTS CARTON KC TP 713894DG PANEL MARBLE RACE BELOW DK 7149831B PARTS CARTON (4) 1/2 CLAMPS PARTS CARTON 714-904B 713500DG 713746DG PANEL MOTOR SKILLS 7149832 PARTS CARTON PANELS 713009DG 7149905 STAIR W/O SPOKES (3' TO 5') PARTS CARTON STAIRS 713248DG CARGO LADDER (5' DECK) 714995 PARTS CARTON 714-995 DG 983100DG CUSTOMER SERVICE KIT KC 714999