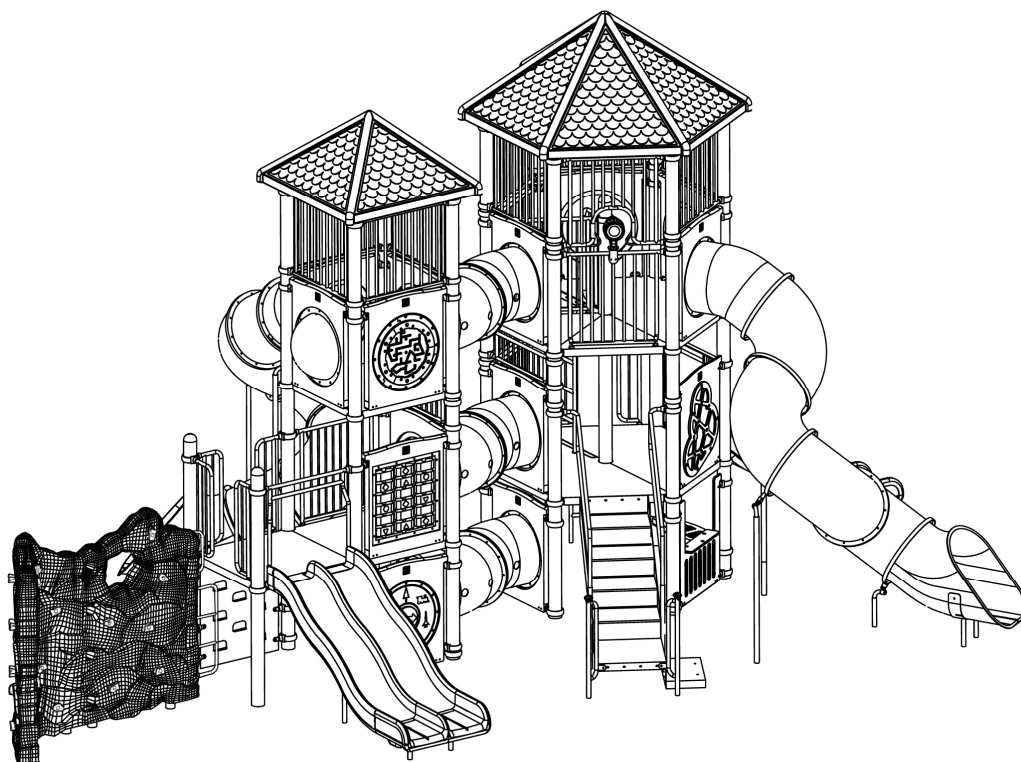


# PLAYCRAFT

## SYSTEMS

# MAINTENANCE MANUAL

**IMPORTANT!** This manual contains maintenance, safety and repair information



**WARNING:** Read this manual thoroughly before installation. Improper assembled or maintained playground equipment can present a serious safety hazard. Impact attenuating surfacing is required under and around all playground equipment and must be maintained.

For replacement parts, additional maintenance supplies or information, please contact your Playcraft representative or customer service at:

## Playground Equipment Maintenance Guidelines

Playcraft Systems • 123 North Valley Drive • Grants Pass, OR 97526  
Tel: 541-955-9199 Fax: 541-955-6130

### IMPORTANT INFORMATION

**Please Save This Document. Do Not Discard or Destroy. Keep all instructions, specifications, drawings, packing lists and bills of material, plus these Maintenance Guidelines in a permanent file for future reference. Packing and parts lists will be required when ordering replacement parts.**

### Read This Document First

Prior to performing required maintenance on any play structures or play accessories supplied by Playcraft Systems, it is imperative that this document be read and fully understood by all persons responsible for maintaining your new playground equipment.

### Introduction

You have purchased some of the finest commercial playground equipment available. It is built to exacting production standards using the finest materials available.

Playcraft Systems is ready to serve you when you need replacement parts and/or additional products. We welcome your input. Listening to our customers and specifiers has been instrumental in helping us set high industry standards and has contributed to our continually improving product lines.

### Owner's Responsibility

#### The Site

Excellent playground equipment is only one part of the total playground equation – environment plus equipment equals a playground. The best equipment poorly sited, carelessly installed, or improperly maintained can result in an unsafe playground. Therefore, before you install your new playground equipment, we urge you to carefully review your plans for the site and consider the following important questions:

1. Will the equipment be visible and accessible to the public?
2. Will it be clearly separated from streets, bike paths and playing fields?
3. Will the area include benches to encourage adult supervision?
4. Will litter receptacles be close by so trash can be contained?

These and other factors that can impact the safety of the play experience are presented in this document.

### Safety Surfacing

**WARNING! You MUST install and maintain appropriate impact attenuating safety surfacing material under and around all playground equipment.**

We sincerely mean exactly what this warning states. Do not consider placing any play equipment over unforgiving materials such as concrete, asphalt, grass, or compacted earth. No other single factor effects playground safety as does the correct selection, installation, and maintenance of energy absorbing playground surfacing materials.

### Surfacing Material and Equipment Installation by Others

Playcraft Systems does not supply safety surfacing material nor do we provide equipment installation services. Whether installed by the owner or by an independent contractor, it is the owner's responsibility to insure that the site and surface are properly prepared, and that all equipment is correctly and safely installed.

### Preventive Maintenance

The playground site, the safety surfacing, and the playground equipment itself will require conscientious periodic maintenance. A carefully planned and implemented preventative maintenance program will not

## **Playground Equipment Maintenance Guidelines**

only protect your investment and prolong equipment life, but also, and most important, it will reduce the potential for serious accidents and injuries.

# Playground Equipment Maintenance Guidelines

## Risk Management

Liability exposure concerns us all. Your role in decreasing this exposure begins with careful site selection, proper play surface preparation, and correct equipment installation. Once your playground is put into service your obligation continues with an ongoing maintenance program.

In-service training of your maintenance staff, a systematic and documented program for inspection of the site and equipment, procedures for immediate maintenance and repair, plus meaningful recordkeeping are indispensable steps in providing a safe playground environment for the users.

**WARNING!** If you feel for any reason that any part of your playground, equipment, or surfacing, is unsafe, do not allow access to the playground until your concern for safe play has been satisfied.

### Safety Inspection Forms / Maintenance Checklist

If you do not have a systematic playground inspection program now in place, we encourage you to start one. You can use the suggested Playground Maintenance Safety Inspection Forms which accompany this manual as a basis, or you can develop your own. Later in this document we also provide examples of product specific maintenance check lists that should be included on your inspection forms.

**Project: C & C Reference material on playground safety including performance standards for equipment and loose fill ground cover can be found in the following publications.**

#### ASTM (These publications are not free)



The American Society for Testing and Materials (ASTM), has published two related voluntary standards.

Standard F-1292 is entitled Standard Specifications for Impact Attenuation Systems Under and Around Playground Equipment. Standard F-1487 is entitled Standard Consumer Safety Performance Specification for Playground Equipment for Public Use.

For copies of these publications contact:

#### **ASTM Customer Service**

1915 Race Street  
Philadelphia, PA 19103  
Telephone 215-299-5585

#### CPSC Handbook for Playground Safety (This publication is free)



U.S. Consumer Product Safety  
Commission Office of  
Information and Public Affairs  
Washington, D.C. 20207

or Call Toll Free Hot-Line 1-800-638-2772  
or Visit the CPSC web site at [www.cpsc.gov](http://www.cpsc.gov)

## Safety Surfacing

Falling onto a hard surface has always been the most frequent cause of severe playground injuries, and while the U.S. Consumer Product Safety Commission (CPSC) strongly supports safety surfacing, it has stopped short of banning unforgiving surfaces. The choice of surfacing materials is the primary factor in playground safety, and is solely the responsibility of the playground owner.

The CPSC Handbook includes an appendix entitled, "Summary Characteristics of Organic and Inorganic Loose Fill Materials, and Unitary Synthetic materials". It presents an evaluation of the fall absorbing characteristics of several commonly used safety surfacing materials (i.e. wood chips, bark mulch, sand, pea gravel, shredded rubber, rubber matting, etc.).

This appendix also deals with the advantages and disadvantages of each surface material, including installation and maintenance requirements. All safety surfacing materials will require maintenance. We urge you to seek professional guidance in evaluating safety surfacing for your particular application.

## Playground Equipment Maintenance Guidelines

### Safety Surfacing (Continued)

Climate, supervision, budget, and maintenance considerations can each be a factor for choosing the correct material for your site. Safety surfacing materials must be maintained at a depth or thickness sufficient to meet ASTM Standard F-1292, "Standard Specification for Impact Attenuation Systems Under and Around Playground Equipment." This standard provides criteria for measuring the force absorbed by a playground surface when an object falls on it from a specified height.

If you select a loose-fill safety surfacing, be sure that the retaining walls or walkways are properly designed to keep the material in place and at the recommended depth. To avoid creating a tripping hazard, edging material should be made obviously visible to the user. Be aware that potholes at the base of slides and under swings may need to be filled on a daily basis.

### Use Zones

The CPSC Handbook states that an appropriately wide and unobstructed safety perimeter, covered with forgiving material, must always surround all play equipment. The guidelines generally recommend a minimum six-foot fall zone around all sides of the equipment. Review your plans carefully. Be sure your site's fall zone is adequate; if in doubt, err on the side of safety. Eight to ten feet of unobstructed space between the equipment and the playground perimeter may not be excessive around high decks or moving equipment. Allow additional space around "to-fro" swings and such other accessories as Bouncers, Track Rides, Arch Climbers, and any equipment from which children might be tempted to leap. Swings and other stand-alone pieces should be installed away from primary traffic patterns. If your playground includes smaller-scaled equipment for preschool play, locate this equipment at a sufficient distance from the older children's play area to minimize potential social conflicts.

### Concrete Footings

Verify that concrete footings are poured in such a way that they will not become exposed. All concrete footings should be a minimum of six inches below construction grade, and twelve to eighteen inches below the top of any loose safety surfacing material. Seek expert advice on footing designs, particularly if you are building the playground at a site affected by expansive or poor soil conditions, or by climatic extremes. For instance, in cold climates, footings must extend below the frost line to prevent the soil from heaving or twisting the structure.

### Soil Drainage

Confirm the soil's drainage capacity. Sites with a history of drainage problems may require the installation of dry wells, French drains or leach lines.

Another option is to build the structure above grade (with low retaining walls containing the safety surfacing material) to ensure maximum drainage. To aid drainage and reduce the settlement of loose surfacing material, many playgrounds are installed over a construction grade base of compacted washed gravel laid beneath filter fabric and the safety surfacing.

### Other Site Considerations

**WARNING!** Metal playing surfaces can become dangerously hot when exposed to direct sunlight. Owners/operators must warn users that serious thermal burns may result when bare skin comes in contact with hot metal.

Track the sun's path over the apparatus in all seasons and keep in mind that hot metal surfaces are known to cause thermal burns in hot climates. Generally, in North America, to avoid the direct rays of the afternoon sun, orient non-shaded metal surfaces toward the North or East.

While a shaded playground is often desirable, always check the site for overhanging tree limbs that might invite climbing. Prune all dead wood out of the trees located in the vicinity of the playground.

# Playground Equipment Maintenance Guidelines

## Inspection After Installation

The following inspection steps should be taken immediately following the installation of play equipment.

- Check to see that each concrete footing meets all specifications.
- Compare the "as-built" structure with the manufacture's drawings and specifications to verify that the installer did not deviate from the assembly and installation instructions.
- Make sure timber posts have been installed with the processed (incised ends down).
- Verify that all metal collars are correctly pinned and are firmly against the metal posts and that all connectors and bolts are in place and secure.
- Make sure that all S-hooks are tightly closed.
- Check all metal parts for sharp edges or burrs created during the installation process and smooth as required.
- Inspect all openings on play structure for potential entrapment hazard following U.S. CPSC Guidelines (i.e., no openings between 3-1/2" and 9").
- Observe initial play patterns to identify and rectify any player traffic conflicts which could lead to future injury.
- Retain all documentation received with the equipment including installation instructions, drawings, packing lists, bills of material, invoice, and order confirmation, in permanent record. These will be required to receive future service from the factory.

## Maintenance Overview

### Training and Monitoring Staff

The following steps should be taken to ensure a quality maintenance program.

- Educate employees about the seriousness of playground safety.
- Use preprinted forms to ensure thoroughness of each inspection and to document your commitment to playground safety.  
After each inspection review the completed forms. Check and confirm that each item that was NOT checked "OK" was either fixed on the spot or that the problem was carefully documented for repair on a Work Order.
- Establish firm policies concerning the time frame allowed for Work Order repairs to be completed before requiring that play equipment be removed from service.
- Establish a method for reporting a hazardous condition and for quickly remedying the situation before an accident can occur.
- Provide a method of documenting the cause of any injury accident. Keep a permanent record of all playground injuries which have been reported.
- Develop a monitoring system to evaluate the equipment for misuse or unintended use.
- Investigate the frequency and nature of damage and/or vandalism and take corrective action.
- Provide periodic in-service training for all maintenance staff.
- Consider employing a knowledgeable independent expert to review the adequacy of the safety inspections, documentation procedures and the overall maintenance program.

### Scheduling Maintenance

The following periodic steps should be taken to maintain a quality maintenance program.

- Assign a maintenance person to regularly visit the site to clean and monitor and report any safety problems, vandalism, or changes in the condition of the safety surfacing.  
Establish a schedule for periodic maintenance inspections. These detailed, systematic safety inspections should occur at least monthly, weekly, or even twice-weekly depending on the amount of usage. More frequent detailed inspections are appropriate at heavily used facilities and at peak activity periods.
- Signage with clearly marked applicable playground rules of use should be posted. This signage should also include a number and contact person for reporting any questions or concerns users may have at the site.
- Assign someone with a personal knowledge of the activity patterns at the playground to determine the most appropriate inspection frequency.

## Playground Equipment Maintenance Guidelines

### Scheduling Maintenance (Continued)

- Monitor changing patterns of use and/or changing site and equipment conditions. Be prepared to increase routine safety inspections as required. Expect the frequency of more detailed playground inspections to vary due to changes of season, climate, history of vandalism, intensity of use, type of equipment and behavioral patterns of the playground users.

### Tools Required for Proper Maintenance

- Keep all tools needed to tighten bolts, screws and other connecting hardware and files readily accessible to the playground supervisor.
- Provide maintenance staff with appropriate tools for cleaning the safety surface, structures, and walkways.
- Provide a safe ladder for inspecting high placed items such as swing assemblies and roof structures.
- Furnish a lubricating gun and weather resistant lubricants for use in maintaining bearings in moving components on the playground.
- Store an adequate supply of safety surfacing material nearby for prompt replenishment of the playground site and for filling "pot-holes" as required.

### Frequency of Playground Inspections

The optimum frequency of inspections for a specific playground will vary with intensity of usage, available supervision, age of the players, vandalism history, seasonal or weather changes and the age and condition of the play equipment. Only someone very familiar with the site should determine how often inspections should take place.

As a general rule, someone should be assigned to routinely (usually daily) inspect the playground looking for any obvious problems. Detailed inspections should be scheduled, periodically (every other day, twice a week, weekly, biweekly, or monthly) based upon the factors noted above and any historical patterns that have been observed.

### Inspection & Repair Forms

#### Creating Safety inspection and Repair Work Order Forms

We have included with this manual a separate sheet illustrating sample Playground Maintenance Safety Inspection Forms. You may photocopy these forms for use by your maintenance staff in performing periodic inspections of your equipment. Or, you may wish to create your own forms. In either case, the playground owner should do the following:

- Establish a simple written form for daily maintenance inspections. Use the sample Daily Playground Maintenance Safety Inspection Form included with these guidelines as a starting point.
- Establish forms for periodic playground safety inspections (weekly, bi-weekly, or monthly). Select appropriate (product-specific) topics relating to your equipment from the Suggested Periodic Playground Maintenance Safety Inspection Points that are listed starting on page 7. Include inspection points for the site, the structure, and every accessory on the playground. If an accessory appears more than once (two Arch Climbers, for example), number the duplicate accessories and provide a space for the inspection of each item. When developing your forms, include other items that may be unique to your site or pertinent to local or state requirements.
- Establish a Playground Equipment Maintenance Work Order Form for your maintenance staff to fill out if a problem is noted that cannot be fixed when discovered. The Work Order Form should be attached to either the daily or periodic inspection checklist for follow up maintenance.
- Instruct the playground inspector to deliver a copy of the Work Order Form to the appropriate maintenance manager or outside contractor.

**WARNING:** If you feel for any reason that any part of your playground, equipment, or surfacing, is unsafe, do not allow access to the playground until your concern for safe play has been satisfied.

## Playground Equipment Maintenance Guidelines

### Inspection Points

#### Suggested DAILY Playground Maintenance Safety Inspection Points

##### The Site

- The safety surfacing material is clean and free of debris and is suitable for play.
- If the safety surfacing material is loose fill, check for rocks, tree roots, animal feces, glass, nails, food containers and other trash above and below grade.
- Safety surfacing material is smooth and being maintained at its minimum required depth of inches.
- If safety matting is used, it is secure and free of voids.
- "Potholes" in loose Fill material at the end of slides and beneath swings have been filled.
- Area is free of standing water.
- Trees are pruned properly and cleared of dead wood.
- No insect or animal nests have been detected.
- Walkways around the play area have been swept.
- All litter is confined to containers.

##### The Structure

- Playing surfaces have been inspected for foreign objects such as razor blades, broken glass, needles, broken parts, damage from tire, removal of hardware or other vandalism.
- All rails, steps, rungs, seats and their respective attachment hardware are secure and intact.
- No ropes or strings have been attached to equipment.

#### Suggested PERIODIC Playground Maintenance Safety Inspection Points

##### The Site

- Daily maintenance has been adequate for keeping the surface clean and free of depressions ("pot holes") under high impact areas (slides, swings, etc.)
- Daily maintenance personnel are keeping safety surfacing replenished to maintain a constant, required depth.
- Nearby trees are cut back and pruned of dead wood.
- Site drainage is functioning properly.

##### The Structure

- The structure has been inspected for stability and overall integrity.
- All wood and metal post bottoms have been carefully inspected for integrity at the ground line or concrete footing contact points.
- The structure has been checked for deterioration, wear and vandalism.
- No component parts are missing or broken.
- All nuts, bolts and set screws were inspected and remain in place and secure.
- No nuts, bolts or screws are exposed.
- All caps and plugs are in place.
- No concrete footings are exposed.
- All socket and collar connections are intact and secure.

##### Metal Surfaces

- Metal surfaces are smooth, with no sharp protrusions.
- Metal shows no signs of unacceptable wear or vandalism.
- Water is not collecting on deck surface.
- Corrosion is not present.



## Playground Equipment Maintenance Guidelines

### Inspection Points (Continued)

#### Plastic Surfaces

- Plastic surfaces are smooth, with no sharp protrusions.
- Plastic shows no signs of unacceptable wear or vandalism.

#### Protective Barriers

##### Wire Mesh Wall Panels or Steel Pipe Walls

- Connecting hardware is secure and intact.
- All welded connections are sound.
- Corrosion is not present.

##### Graphic Panels

- Panel attachment hardware is in place and secure.

##### Mirror Panels

- Panel attachment hardware is in place and secure.
- Stainless steel mirror is firmly attached to panel.

### Moving Accessories

**Please note:** Because moving accessories require more attention than stationary accessories, you may choose to incorporate items for a detailed inspection of moving equipment into a separate, more frequent schedule.

#### Belt and/or Toddler Swings

- Safety surfacing material around and beneath swing is acceptable.
- All connection hardware is in place and secure.
- Swing hanger bushings have been inspected for unacceptable wear and/or in good working order.
- Chain link bearing points have been inspected for integrity and contain at least 75% of original steel.
- Upper and lower S-hooks are tightly closed and have been inspected for integrity.
- Rubber seats are not split, and internal metal reinforcements are not exposed.
- Seats are at \_\_\_\_\_ inches elevation (proper elevations for each type of swing are specified in installation drawings) above safety surfacing material.
- Corrosion is not present.

#### Tire Swing

- Safety surfacing material around and beneath swing path is acceptable.
- All connection hardware is in place and secure.
- Mounting bracket has been inspected for unacceptable wear and is securely fastened.
- Tire when positioned and extended toward support posts, clears post by 30 inches or more. (Refer to CPSC guidelines)
- Bottom of tire is at 15 inches above safety surfacing material when tire is hanging freely.
- Swivel Assembly is fully lubricated with heavy-duty bearing grease.
- Swivel Assembly is in good working order and shows no signs of unacceptable wear.
- Rubber boot is intact and appropriately covers moving parts preventing exposure of bearings to dirt and dust.
- Upper chain connectors are secure and show no signs of unacceptable wear.
- Chain link bearing connection points have been inspected for integrity and contain at least 75% of original steel.
- Link connections to tire eye bolts are intact, secure and show no sign of unacceptable wear.
- Attachment hardware is tightly mounted to tire assembly.
- Tire and assembly are intact and in good condition.
- Corrosion is not present

## Moving Accessories (Continued)

### Track Ride

- Safety surfacing material around and beneath Track Ride path is acceptable.
- Supporting beam is firmly attached to structural supports.
- All attachment hardware is in place and secure.
- Track is free of obstructions and foreign objects and bearings of track assembly roll freely from one end of track to the other.
- Bearings of track assembly are fully lubricated with heavy-duty bearing grease and roll freely.
- Rubber bumpers located at each end of the track and track assembly are intact and working properly.
- Corrosion is not present.

### Ring Traverse

- Safety surfacing material around and beneath Ring Traverse path is acceptable.
- All attachment hardware is in place and secure.
- Each of the hanger assemblies has been inspected and shows no signs of unacceptable wear.
- Bearing points have been inspected for integrity and unacceptable wear.
- "S" hooks remain tightly closed.

### Suspension Bridge

- Safety surfacing material around and beneath bridge is acceptable.
- All attachment hardware is in place and secure.
- Bearing points have been inspected for integrity and unacceptable wear.
- Supporting bolts are secure.
- Hand railings are in place and secure.
- No corners or edges are sharp.

### Arch Bridge

- Safety surfacing material around and beneath bridge is acceptable.
- All connecting hardware is in place and secure.
- Bridge has been inspected from beneath, and bearing points show no sign of unacceptable wear.
- Hand railings are in place and secure. No corners or edges are sharp.

### Climbing Wall

- Safety surfacing material around and beneath Climbing Wall is acceptable.
- All attachment hardware is in place and secure.
- Rope is free of cuts and/or unacceptable wear.
- PVC coated grips are in good shape and secure.
- Transition wall is in place and secure.
- No corners or edges are sharp.

### Tic-Tac-Toe and Graphics Cylinders

- All connecting hardware is in place and secure.
- Plastic cylinders are smooth with no protrusions.
- Cylinders rotate freely.

### Bouncer

- Safety surfacing material around and beneath Bouncer is acceptable.
- All connecting hardware is in place and secure.
- Concrete footing is not exposed.
- No corners or edges are sharp.

## Playground Equipment Maintenance Guidelines

### Stationary Accessories

#### Spiral Slide

- Safety surfacing material around and beneath Spiral Slide is acceptable.
- All connecting hardware is in place and secure.
- Bedway is smooth, clean, and free of foreign objects between sections and/or against support post.
- End cap of center post is intact.
- Entrance platform is secured to deck members and entrance section.
- Concrete footing is not exposed.

#### Tube Slide

- Safety surfacing material around and beneath Tube Slide is acceptable.
- All connecting hardware is in place and secure.
- Connections between sections are secure and free of foreign objects.
- Slide is securely connected to the structure.
- Slide displays no vertical or horizontal movement.
- Concrete footing is not exposed.

#### Chain Net / Net Wall Climber

- Safety surfacing material around and beneath Chain Net and Net Wall is acceptable.
- Chain link intersections have been inspected for unacceptable wear.
- Connection points to structure and footings are secure.
- Concrete footings are not exposed.

#### All Other Stationary Accessories

(includes Vertical Climbers, Fire Poles, Arch Climbers, etc.)

- Safety surfacing material around and beneath stationary accessory is acceptable.
- All connecting hardware is in place and secure.
- All welds are sound.
- Accessory shows no sign of horizontal or vertical movement from structure or ground.
- Concrete footing is not exposed.

### Annual Evaluation

Once a year the playground should be evaluated on general conditions. Here is a minimum list of items that should be addressed:

- Have permanent maintenance records and documentation of all-safety inspections and repairs been kept on file?
- Has all equipment been inspected and repaired in accordance with the established maintenance program?
- Has the regularly scheduled maintenance time schedule been adequate for maintaining safe conditions on the site, the structure, and the safety surfacing material?
- If any accidents have occurred; have they been carefully documented and the situations that caused the accidents corrected?
- Has the playground been adequate in terms of size and play experiences given the number and ages of users?
- Have accessible activities addressed the physical abilities of the users?
- Has existing seating been sufficient to encourage adult supervision from all sides of play structure?
- Have litter containers been adequate in terms of number and/or size? In frequency of being emptied?

## Playground Equipment Maintenance Guidelines

### Replacement Parts

- Order genuine replacement parts from Playcraft Systems.  
Do not introduce non-factory-supplied substitute parts for any purpose. Great care has been taken to provide the highest quality parts and hardware for your structure and accessories. Correct replacement bolts are not available at local hardware stores.
- All repairs and the replacement of parts must be done in accordance with current Playcraft Systems specifications.
- Retain complete permanent documentation of all replacement parts ordered, noting both the date installed and the source of the parts.

**TO ORDER REPLACEMENT PARTS CONTACT YOUR LOCAL PLAYCRAFT REPRESENTATIVE OR CONTACT CUSTOMER SERVICE AT 1-800-333-8519** In order to provide prompt service, customer service will require the original purchase information, equipment site address and product model information.

### Equipment Repair

Playcraft Systems uses only the finest and most durable materials available in the manufacture of its equipment. Occasionally components, because of damage through vandalism, normal wear and tear and various other reasons, need minor repair. Simple repairs can be made and should be expected over the useful life of your equipment.

The following instructions are intended as a guide for simple repairs in the field and are not intended to provide repair instructions for all situations. If you have any questions about equipment repair for components listed in the following or for repair of equipment or components not specifically addressed, please contact your Playcraft representative or call customer service at 1-800-333-8519

**IMPORTANT: Do not try to repair broken heavily worn or damaged equipment or components. Broken, heavily damaged or worn equipment or components must be replaced.**

#### Repair of PVC Coated Components

- Use the PVC repair kit included with the service kit provided with your equipment.
- If you need a replacement PVC repair kit, contact your Playcraft representative or call customer service at 1-800-333-8519.  
Lightly sand the component surface needing to be repaired and clean with Acetone. Next apply liquid PVC patch as needed; Allow repaired area to cure for approx. 24 hours prior to use.  
**Note:** Additional directions are provided with the liquid PVC.

#### Repair of Powder Coated Components

- Use the Powder Coat repair kit included with the service kit provided with your equipment.
- If you need a replacement Powder Coat repair kit, contact your Playcraft representative or call customer service at 1-800-333-8519  
Lightly sand the component surface needing to be repaired and clean with Acetone. Next apply a coat of primer. Allow drying time.
- Finally apply two coats of powder coat matching touch-up paint. Allow to dry for 24 hrs.  
**Note:** Additional directions are provided with the touch-up paint.

### Repair of Plastic "Poly" Components

Do not try to repair deep gouges. Plastic components with deep gouges should be replaced. Minor surface damage to plastic components such as nicks or graffiti can be repaired as follows:

- Lightly sand surface needing to be repaired.  
Use a heat gun to remove light sanding scratches and to help return plastic to original surface condition. Additional directions may be included with the purchase of a heat gun.- It may be important to practice your plastic repair technique on a hidden surface of the component you wish to repair. (i.e. the under side of a slide)
- 

**Notes:**

(A) Heat guns are available through most hardware stores.

(B) In most cases damaged plastic cannot be repaired to its original condition.

### Replacement of Hardware

- Replace all missing, worn and/or damaged hardware with new factory hardware.
- Secure all non self-locking hardware with a liquid thread lock.
- If you need an additional hardware or specialty tools not provided with your service kit, contact your Playcraft representative or call customer service at 1-800-333-8519.

**Notes:**

(A) Do not use non-factory hardware.

(B) When replacing hardware, refer to assembly instructions provided with the original equipment or component.

For replacement parts, additional maintenance supplies or information,  
please contact your Playcraft representative or customer service at:

**Playcraft Systems • 123 North Valley Drive • Grants Pass, OR 97526**  
**Tel: 541-955-9199 Fax: 541-955-6130**

## Playground Equipment Maintenance Guidelines

**NOTES:**