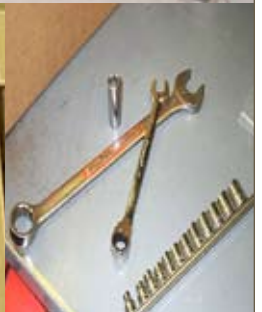




PALADIN HEAVY CONSTRUCTION



# REPAIR AND PREVENTATIVE MAINTENANCE GUIDE



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# INTRODUCTION

The purpose of this Maintenance Guide is to assist in the maintenance and service of JRB products. It is not intended to be a training manual for maintenance and service personnel. Manuals for specific products or questions regarding handling and maintenance of JRB® Company's products should be directed to the JRB® Customer Service Department. They can be contacted by:

Phone at: 800-428-2538

JRB's Web site: [www.paladinbrands.com](http://www.paladinbrands.com)

## SAFETY STATEMENTS AND GENERAL PRECAUTIONS

### **WARNING**

- Follow all work place safety instructions and warnings.
- Know your equipment and the rules governing safe operation and maintenance found in the owners manual. Know and understand the manufacturers manuals for all equipment you are working with.
- Improper installation, operation, or maintenance of this equipment could result in serious injury or death. Operators and maintenance personnel should read all manuals related to this equipment thoroughly before beginning installation, operation, or maintenance.
- Be alert and know where the nearest fire, safety and first aid equipment is located.
- Wear protective clothing and protective devices at all times in areas where they are required or while performing tasks that warrant their use. Do not wear loose fitting clothing or dangling apparel. Take care to assure any jewelry or long hair can not get caught in moving parts. WEAR GOGGLES OR SAFETY GLASSES.
- Take advantage of company and industry training programs.
- Questions regarding safety should be addressed with your companies Safety Coordinator or your supervisor.
- Do not modify any JRB® equipment in any way without written authorization and instructions from JRB Company, Inc. prior to performance of modifications. Modifications may weaken the integrity of the equipment and could cause failure. Modification of coupler associated equipment could allow attachments to be released without warning.
- Use care and caution in all job related activities. Remember, many accidents are caused by human error. Horse play should not be tolerated in the work place. Using caution can help prevent serious injury or death.

## SAFETY STATEMENTS

### **DANGER**

This statement is used where serious injury or death will result if the instructions are not followed properly.

### **WARNING**

This statement is used where serious injury or death could result if the instructions are not followed properly.

### **CAUTION**

This statement is used where minor injury could result if the instructions are not followed properly.

### **NOTICE**

This statement is used where equipment or property damage could result if the instructions are not followed properly.



This symbol by itself or used with a safety signal word throughout this manual is used to call your attention to instructions involving your personal safety or the safety of others. Failure to follow these instructions can result in injury or death.

## GENERAL PRECAUTIONS

### **WARNING**

#### **READ MANUAL PRIOR TO INSTALL**

Improper installation, operation, or maintenance of this equipment could result in serious injury or death. Operators and maintenance personnel should read this manual as well as all manuals related to this equipment and the prime mover thoroughly before beginning installation, operation, or maintenance. **FOLLOW ALL SAFETY INSTRUCTIONS IN THIS MANUAL AND THE PRIME MOVERS MANUAL.**

### **WARNING**

#### **READ AND UNDERSTAND ALL SAFETY STATEMENTS**

Read all safety decals and safety statements in all manuals prior to operating or working on this equipment. Know and obey all OSHA regulations, local laws and other professional guidelines for your operation. Know and follow good work practices when assembling, maintaining, repairing, mounting, removing or operating this equipment.



#### **KNOW YOUR EQUIPMENT**

Know your equipment's capabilities, dimensions and operations before operating. Visually inspect your equipment before you start, and never operate equipment that is not in proper working order with all safety devices intact. Check all hardware to assure it is tight. Make certain that all locking pins, latches, and connection devices are properly installed and secured. Remove and replace any damaged, fatigued or excessively worn parts. Make certain all safety decals are in place and are legible. Keep decals clean, and replace them if they become worn and hard to read.

## GENERAL SAFETY PRECAUTIONS - CONTINUED

### ⚠ WARNING

#### PROTECT AGAINST FLYING DEBRIS

Always wear proper safety glasses, goggles or a face shield when driving pins in or out or when any operation causes dust, flying debris, or any other hazardous material.

### ⚠ WARNING

#### LOWER OR SUPPORT RAISED EQUIPMENT

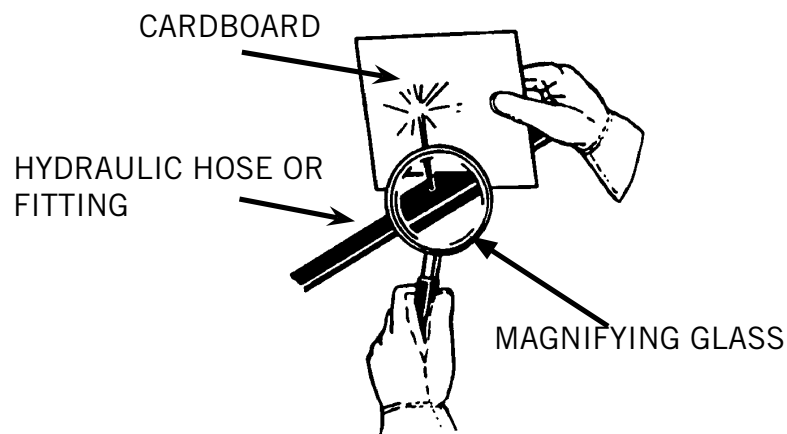
Do not work under raised booms without supporting them. Do not use support material made of concrete blocks, logs, buckets, barrels or any other material that could suddenly collapse or shift positions. Make sure support material is solid, not decayed, warped, twisted, or tapered. Lower booms to ground level or onto blocks. Lower booms and attachments to the ground before leaving the cab or operator's station.

### ⚠ WARNING

#### USE CARE WITH HYDRAULIC FLUID PRESSURE

Hydraulic fluid under pressure can penetrate the skin and cause serious injury or death. Hydraulic leaks under pressure may not be visible. Before connecting or disconnecting hydraulic hoses, read your prime movers operator's manual for detailed instructions on connecting and disconnecting hydraulic hoses or fittings.

- Keep unprotected body parts, such as face, eyes, and arms as far away as possible from a suspected leak. Flesh injected with hydraulic fluid may develop gangrene or other permanent disabilities.
- If injured by injected fluid, see a doctor at once. If your doctor is not familiar with this type of injury, ask him to research immediately to determine proper treatment.
- Wear safety glasses, protective clothing, and use a sound piece of cardboard or wood when searching for hydraulic leaks. **DO NOT USE YOUR HANDS! SEE ILLUSTRATION.**



### ⚠ WARNING

#### DO NOT MODIFY MACHINE OR ATTACHMENTS

Modifications may weaken the integrity of the attachment and may impair the function, safety, life and performance of the attachment. When making repairs, use only the manufacturer's genuine parts, following authorized instructions. Other parts may be substandard in fit and quality. Never modify any ROPS (Roll Over Protection System) equipment or device. Any modifications must be authorized in writing by the manufacturer.

## GENERAL SAFETY PRECAUTIONS - CONTINUED

### **⚠ WARNING**

#### **SAFELY OPERATE EQUIPMENT**

Do not operate equipment until you are completely trained by a qualified operator in how to use the controls, know its capabilities, dimensions, and all safety requirements. See your prime movers manual for these instructions.


- Keep all step plates, grab bars, pedals, and controls free of dirt, grease, debris, and oil.
- Never allow anyone to be around the equipment when it is operating.
- Do not allow riders on the attachment or the prime mover.
- Do not operate the equipment from anywhere other than the correct operators position.
- Never leave equipment unattended with the engine running or with this attachment in a raised position.
- Do not alter or remove any safety feature from the prime mover or this attachment.
- Know your work site safety rules as well as traffic rules and flow. When in doubt on any safety issue, contact your supervisor or safety coordinator for an explanation.

### **⚠ WARNING**

#### **SAFELY MAINTAIN AND REPAIR EQUIPMENT**

- Do not wear loose clothing, or any accessories that can catch in moving parts. If you have long hair, cover or secure it so that it does not become entangled in the equipment.
- Work on a level surface in a well-lit area.
- Use properly grounded electrical outlets and tools.
- Use the correct tool for the job at hand. Make sure they are in good condition for the task required.
- Wear the protective equipment specified by the tool manufacturer.

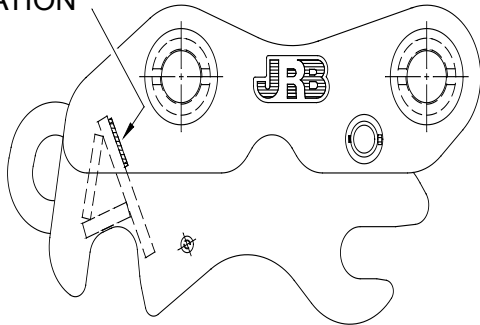
# SERIAL TAG PLACEMENT


  
 MODEL- \_\_\_\_\_
   
 S/N- \_\_\_\_\_
   
 C/N- \_\_\_\_\_
   
 DEM- \_\_\_\_\_
   
 CAPACITY- \_\_\_\_\_

In order to allow us to serve you, the customer, in the most efficient way possible, please have the serial number of your JRB coupler or attachment on hand when calling in to JRB Company, Inc. The diagrams below show the location of the serial tag on the more popular JRB products.

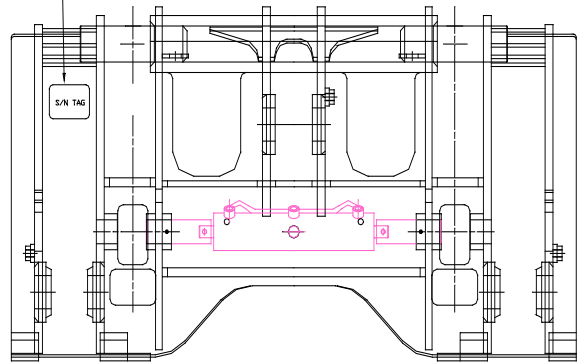
## SERIAL TAG

SERIAL TAG LOCATION



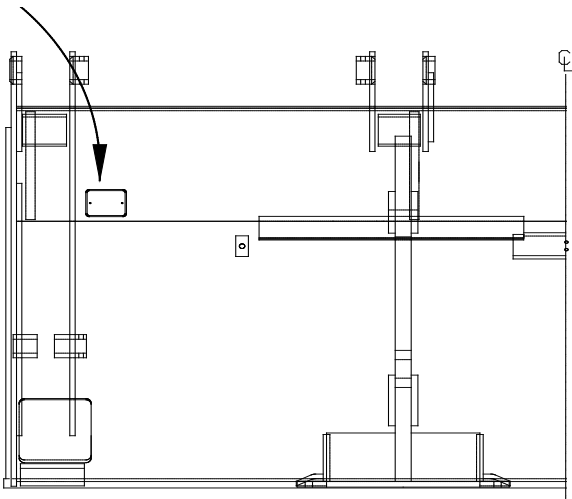
SmartLoc® Coupler

SERIAL TAG LOCATION



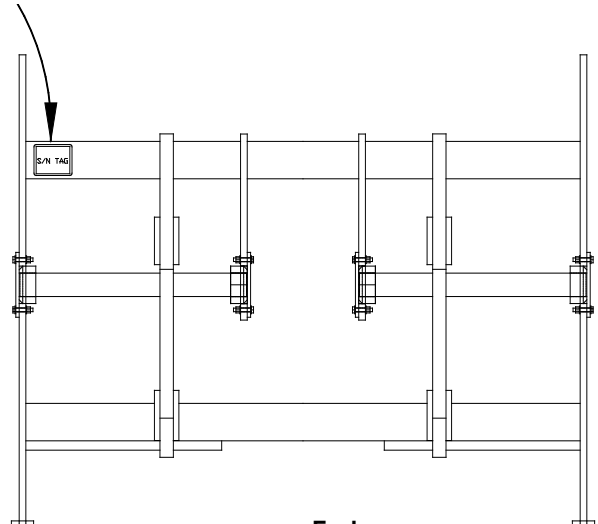
Loader Coupler

SERIAL TAG LOCATION



Loader Buckets

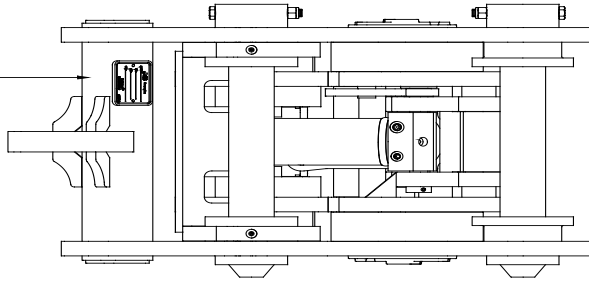
SERIAL TAG LOCATION



Forks

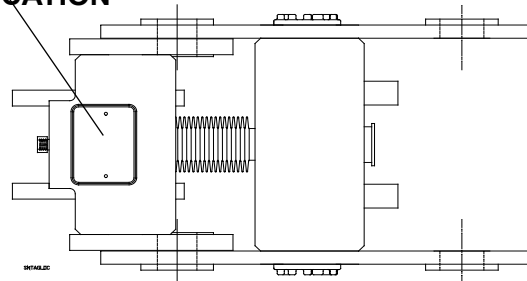
# SERIAL TAG PLACEMENT - Continued

SERIAL TAG  
LOCATION



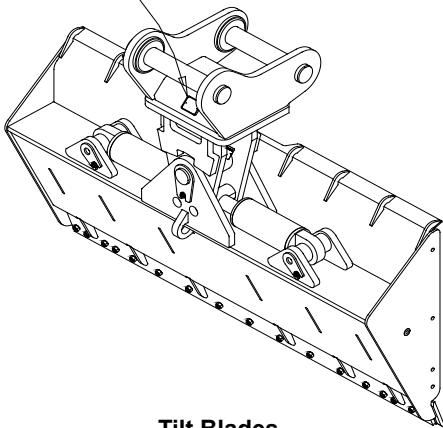
Hydraulic RotoLoc®

SERIAL TAG  
LOCATION



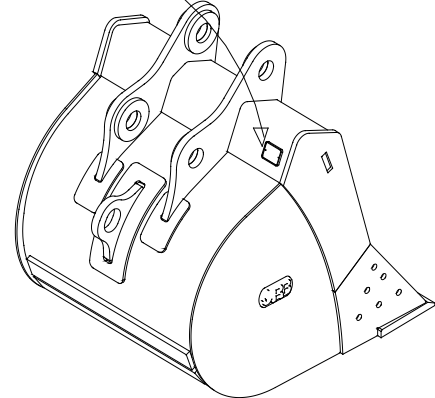
Mechanical RotoLoc®

SERIAL TAG  
LOCATION



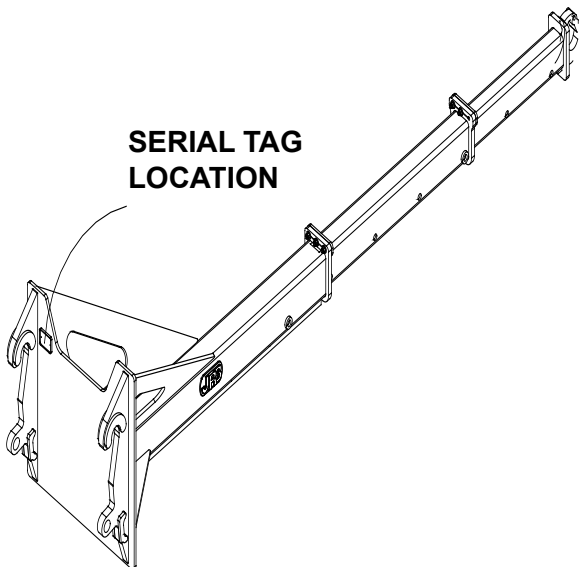
Tilt Blades

SERIAL TAG  
LOCATION



Excavator Buckets

SERIAL TAG  
LOCATION



Booms