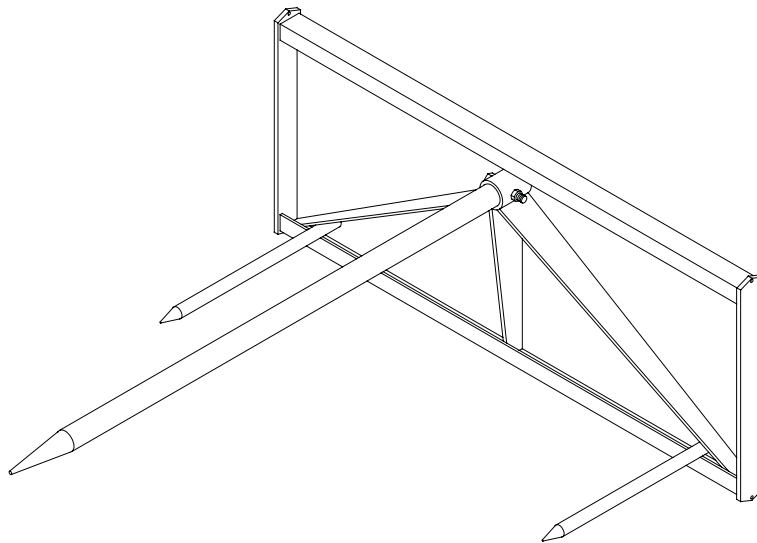




# BALE MOVER



PALADIN LIGHT CONSTRUCTION



SERIAL NUMBER: \_\_\_\_\_

MODEL NUMBER: \_\_\_\_\_

Manual Number: MR25540

Models: LAF1910, LAF1915,  
LAF 1920 & LAF1925

Date: April 13, 2006



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## INTRODUCTION

Congratulations on your purchase of a new FFC **Bale Mover**. This product has been designed and built to lift, transport, and stack round bales of organic materials. You or any other person who will be assembling, operating, maintaining, or working with this product are required to read and completely understand the information and instructions contained in this manual. If anyone does not fully understand every part of this manual, please obtain further assistance by contacting the dealer from which this product was purchased or by contacting FFC at the telephone number or address listed on the cover of this manual. Keep this manual available for reference whenever this product is being handled or used. Provide this manual to any new owners and/or operators.

This manual covers model(s) **LAF1910, LAF1915, LAF1920, and LAF1925**. The difference between the models is the quantity of large spears and the width of the product, details of which are covered on the parts list and specifications page(s).

## GENERAL INFORMATION

The purpose of this manual is to assist in assembling, mounting, operating, and maintaining your Bale Mover. Read this manual carefully to obtain valuable information and instructions that will help you achieve safe and dependable service. The illustrations and data used in this manual were current at the time of printing, but due to possible engineering and/or production changes, this product may vary slightly in detail. FFC reserves the right to redesign and/or change components as may be necessary without notification.

Throughout this manual, references may be made to:

Power Unit	The engine-driven machine to which this product must be attached.
Right, Left, Front, Rear	Directions that are determined in relation to the operator of the equipment when seated in the normal operating position.
<b>IMPORTANT</b>	Precautions that must be followed to prevent damage to the equipment.
<b>NOTICE</b>	Precautions that must be followed to prevent substandard performance.

## SERIAL NUMBER LOCATION

Always refer to the model and serial number when ordering parts or requesting information from your dealer. The serial number plate for this product is located on the top left surface of the attachment plate of your Bale Mover.

Reference Information	
Model Number	Loader Make
Serial Number	Loader Model
Date Purchased	Loader Serial Number

## DEFINITION OF SAFETY TERMS AND SYMBOLS

Throughout this manual, the terms **DANGER**, **WARNING**, and **CAUTION** are used to indicate the degree of hazard to personnel if proper safety procedures are not followed. These words will be used in conjunction with the Safety Alert Symbol: a dark triangle containing a white exclamation mark.



The Safety Alert Symbol means:  
ATTENTION!                      BECOME ALERT!                      YOUR SAFETY IS INVOLVED!

### **DANGER**

Indicates an imminently hazardous situation which, if not avoided, **WILL result in death or serious injury.**

### **WARNING**

Indicates a potentially hazardous situation which, if not avoided, could **result in death or serious injury.**

### **CAUTION**

Indicates a potentially hazardous situation which, if not avoided, **may result in minor or moderate injury;**  
OR

**may** also be used to alert against unsafe practices that may result in personal injury.

## ACCIDENTS CAN BE PREVENTED WITH **YOUR HELP !**

No accident prevention program can be successful without the wholehearted cooperation of the person who is directly responsible for the operation of the equipment.

To read equipment accident reports from all over the country is to be convinced that a large number of accidents can be prevented only by operators who consistently anticipate the results of their actions and thus prevent accidents from ever occurring. No power-driven equipment, whether it is on the highway, in a farm field, or in an industrial plant, can be any safer than is allowed by the person who is at the controls.

If accidents are to be prevented (and accidents can be prevented), that prevention will come from equipment operators who accept their complete responsibility.

The designer, the manufacturer, and the safety engineer all help create a safe product, but the operator of that product can wipe out their combined efforts with a single careless act.

The best safety device is a careful operator. FFC and your dealer ask that **YOU** be that careful, responsible equipment operator.

### **YOU** ARE THE KEY TO SAFETY BECAUSE:

**YOU** are responsible for the SAFE operation and maintenance of **YOUR** Bale Mover.

**YOU** are responsible to familiarize yourself, and anyone else who will assemble, operate, maintain, or work around this product, with the SAFETY information contained in this manual.

**YOU** are responsible to read ALL information contained in this manual to any operators or maintenance personnel who are not fully able to read the written English language. Whether **YOU** read the manual as written or translate it into another language, **YOU** must make certain that all operators and maintenance personnel have a complete understanding of the full and exact contents of this manual. Translations of this manual into other languages are available by submitting a written request to FFC.

**YOU** can reduce the risk of injury or death by following all safety precautions and by using good safety practices.

## SAFETY INSTRUCTIONS

*WORK SAFELY - A CAREFUL OPERATOR IS THE BEST INSURANCE AGAINST ACCIDENTS !!*

### **WARNING SECTION**



#### **WARNING**

**Obey all the safety instructions listed in this section and throughout this manual. Failure to obey instructions in this section could result in death or serious injury.**

- Use properly grounded electrical outlets & tools.
- Use the right tool for the job at hand.
- Make sure that your tools are in good condition for performing the desired function.
- When using tools, wear the protective equipment specified by the tool manufacturer. (i.e. hardhat, safety glasses, work gloves, protective shoes, etc.)

BEFORE ATTEMPTING ANY TYPE OF ASSEMBLY, OPERATION, MAINTENANCE, OR OTHER WORK ON OR NEAR THIS PRODUCT:

- **READ AND COMPLETELY UNDERSTAND THIS MANUAL.**
- **READ AND COMPLETELY UNDERSTAND THE MANUALS PROVIDED WITH YOUR POWER UNIT, LOADER, and QUICK-ATTACH.**
- Read and understand all safety signs on this product and on your power unit, loader, and quick-attach.
- Know all your controls and know how to quickly stop all power unit movement, the Bale Mover movement, and the engine in case of an emergency.
- Know and obey all applicable government rules, O.S.H.A. regulations, local laws and other professional guidelines for your operation.
- Make sure that anyone who will be assembling, mounting, maintaining, repairing, removing, and/or storing this product:
  - has been instructed in the safe operation of this product and of the power unit, loader, and quick-attach to which this product is attached.
  - is physically and mentally capable of the safe operation of this type of equipment.
  - is not under the influence of drugs or alcohol.
  - is carefully supervised from a safe distance, especially if such person is inexperienced.
  - wears appropriate protective equipment (i.e. hardhat, safety glasses, work gloves, protective shoes, respirator, ear protection, etc.).
  - does not wear loose fitting clothing, loose or uncovered hair, or any accessories (jewelry, necktie, scarf, wrist watch, etc.) that can catch in moving parts.
  - has annually reviewed all safety instructions.
- Know and follow good work practices when assembling, mounting, maintaining, repairing, removing, and storing this product:
  - Work on a level surface in a well-lit area.
  - Keep the area clean and dry.

WHEN YOUR POWER UNIT IS USED DURING ANY TYPE OF ASSEMBLY, OPERATION, MAINTENANCE, OR OTHER WORK ON OR NEAR THIS PRODUCT:

- Before leaving the operator's station or before beginning any type of work on this product, lower this product to the ground, apply your power unit's parking brake, stop the engine, remove the starter key, wait for all moving parts to stop, and then relieve all pressure in the hydraulic lines. Refer to your power unit's operator's manual for instructions on how to relieve hydraulic pressure in lines.
- Know your loader's safe lifting and operating capacity and the weight of this product. See the specifications in this manual for the weight of this product and refer to your power unit's and your loader's operator's manuals for safe operating limits. Lift capacity may be reduced if using a quick-attach.
- Never allow anyone, except the operator, to be around the power unit or this product when either is in motion. Do not startup unless others are clear of the work area.
- Do not allow riders on this product or the power unit.
- Do not stand or climb on this product when raised.
- Do not place any part of your body under any part of this product unless this product is securely resting on adequate blocking or on the ground.
- Do not use blocking made of concrete blocks, logs, buckets, barrels or any other material that could suddenly collapse or shift positions. Do not use wood or steel blocking that shows any signs of material decay. Do not use blocking that is warped, twisted, or tapered.
- Never operate controls from the ground. Operate the controls only from the operator's station.
- Never leave equipment unattended with the engine running or with this product raised on the loader.
- Be aware of the added weight and width of this product. Reduce travel speeds accordingly, especially when traveling over rough ground.
- Keep this product close to the ground and under control when transporting.

## SAFETY INSTRUCTIONS

*WORK SAFELY - A CAREFUL OPERATOR IS THE BEST INSURANCE AGAINST ACCIDENTS !!*

### WARNING SECTION (CONTINUED)



#### WARNING

Obey all the safety instructions listed in this section and throughout this manual. Failure to obey instructions in this section could result in death or serious injury.

#### WHEN MOUNTING THIS PRODUCT TO YOUR POWER UNIT:

- Refer to the operator's manuals of your power unit, your loader, and your quick-attach for special or detailed mounting instructions.
- This product should fit onto the quick-attach or loader arms of your power unit the same as the original products that were designed by your loader / quick-attach manufacturer.
- If this product does not fit properly, contact FFC before operating.
- Never place your finger into the mounting plate or loader holes. A slight movement of the power unit or this product could cause serious injury.

#### BEFORE EACH USE, THOROUGHLY INSPECT THIS PRODUCT AND:

- Make certain that all safety signs are in place and legible. Refer to the safety sign page in this manual for the placement of safety signs for this product.
- Replace all damaged or excessively worn parts and hardware only with genuine FFC parts or with properly rated fasteners.
- Make certain that all locking pins, latches, and connection devices are properly installed and secured.
- Make certain that all protective guards, canopies, doors, etc. are in place and secure.

#### WHEN OPERATING THIS PRODUCT IN ACCORDANCE WITH DESIGN INTENTIONS:

- The full length of the spear(s) must penetrate the bale so that a spear does not tear out a portion of the bale, allowing the bale to fall.

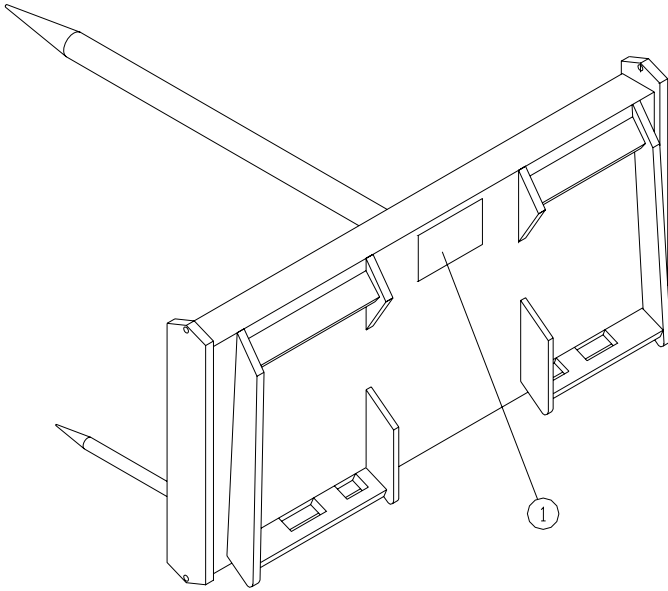
#### WHEN ADJUSTING, SERVICING OR REPAIRING THIS PRODUCT:

- Make no modifications to your Bale Mover.
- When making repairs, use only genuine FFC parts or, for fasteners, use only properly rated parts.
- Replacement parts, for parts with safety signs attached, must also have safety signs attached.

## SAFETY SIGN LOCATIONS

ITEM	QTY	PART # - DESCRIPTION
1	1	50-0723 – Read Manual

(LAF1910 Shown)



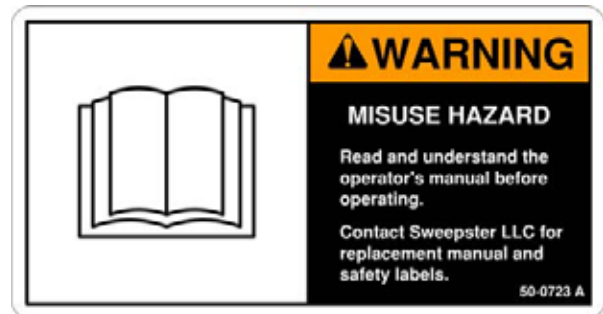
### INSTRUCTIONS

- Keep all safety signs clean and legible.
- Replace all missing, illegible, or damaged safety signs.
- Replacement parts for parts with safety signs attached must also have safety signs attached.
- Safety signs are available, free of charge, from your dealer or from FFC.

### PLACEMENT OR REPLACEMENT OF SAFETY SIGNS

1. Clean the area of application with non-flammable solvent, and then wash the same area with soap and water.
2. Allow the surface to fully dry.
3. Remove the backing from the safety sign, exposing the adhesive surface.
4. Apply the safety sign to the position shown in the diagram above and smooth out any bubbles.

### ITEM 1



## POWER UNIT SPECIFICATIONS

### IMPORTANT

Exceeding the maximum recommended power unit specifications **CAN** result in damage to this product and **WILL** void all FFC warranties.

DESCRIPTION	SPECIFICATIONS
Operating Capacity of Power Unit's Loader	5,000 lbs. maximum
Lift Capacity of Power Unit's Loader	10,000 lbs. maximum
Rear Ballast	As required to maintain full power unit stability. (Note the shipping weight of your model, then see the operator's manual(s) for your power unit, loader, and quick-attach for ballasting needs.)

## BALE MOVER MOUNTING



**SAFETY FIRST!! READ AND UNDERSTAND THE SAFETY INSTRUCTIONS (pages 2-5 of this manual) BEFORE BEGINNING ANY BALE MOVER MOUNTING**

1. Place this product on a firm, level surface that is large enough to safely accommodate this product, your power unit and all workers involved in the mounting process.
2. Refer to the operator's manual(s) for your power unit, loader, and quick-attach and follow the mounting instructions contained therein.
3. Carefully raise the loader and cycle the tilt cylinders to check clearances and to verify that all mounting procedures have been successfully completed.

## BALE MOVER OPERATION



**SAFETY FIRST!! READ AND UNDERSTAND THE SAFETY INSTRUCTIONS (pages 2-5 of this manual) BEFORE BEGINNING ANY BALE MOVER OPERATION**



### WARNING

Failure to obey the following procedures could result in death or serious injury.

- The full length of the spear(s) must penetrate the bale so that a spear does not tear out a portion of the bale, allowing the bale to fall.

### IMPORTANT

Using the spear(s) to do any prying or to chain objects to or to lift inorganic objects **CAN** result in damage to this product and **WILL** void all FFC warranties.

### IMPORTANT

Lifting a bale more than: 1,800 pounds (LAF1910 or LAF1915)  
or 3,600 pounds (LAF1920 or LAF1925)  
**CAN** result in damage to this product and **WILL** void all FFC warranties.

## BALE MOVER OPERATION (Continued)



**SAFETY FIRST!! READ AND UNDERSTAND THE SAFETY INSTRUCTIONS (pages 2-5 of this manual) BEFORE BEGINNING ANY BALE MOVER OPERATION**

### POSITIONING THE BALE

1. Approach the round face of the bale so that the spear(s) will penetrate the bale slightly below center. If the bales are lying on a round face, use a loader to tip the bales up before using this product.

### NOTICE

**If the bale is lying on a round face and you attempt to spear that bale down from the top, movement of the power unit while operating the loader will be necessary. Excessive movement of the power unit can seriously damage the loader and/or the loader's hydraulic cylinders or hoses.**

**For this reason, this approach to lifting bales is NOT RECOMMENDED.**

2. Push the spear(s) completely into the bale until the bale touches the loader attachment plate. In some instances, this may require that the spear(s) be tilted down slightly as the spear is moved forward.
3. Roll back and lift the bale slightly to make sure that the bale is secure. If the bale appears to be unstable, lower the bale, withdraw the spear(s) and reinsert the spear(s) into the bale to achieve full stability. Repeat steps 2 and 3 until full stability is achieved.

### TRANSPORTING THE BALE

1. Raise the bale to the **minimum** height required for the terrain that must be crossed with the bale.
2. Operate the power unit so that:
  - the bale always remains close to the ground,
  - accelerating, turning, and braking are done very gradually,
  - and any obstacles, bumps, or holes in your intended path are avoided.
3. Frequently check the bale to make sure that the bale has not become unstable.

## BALE MOVER MAINTENANCE

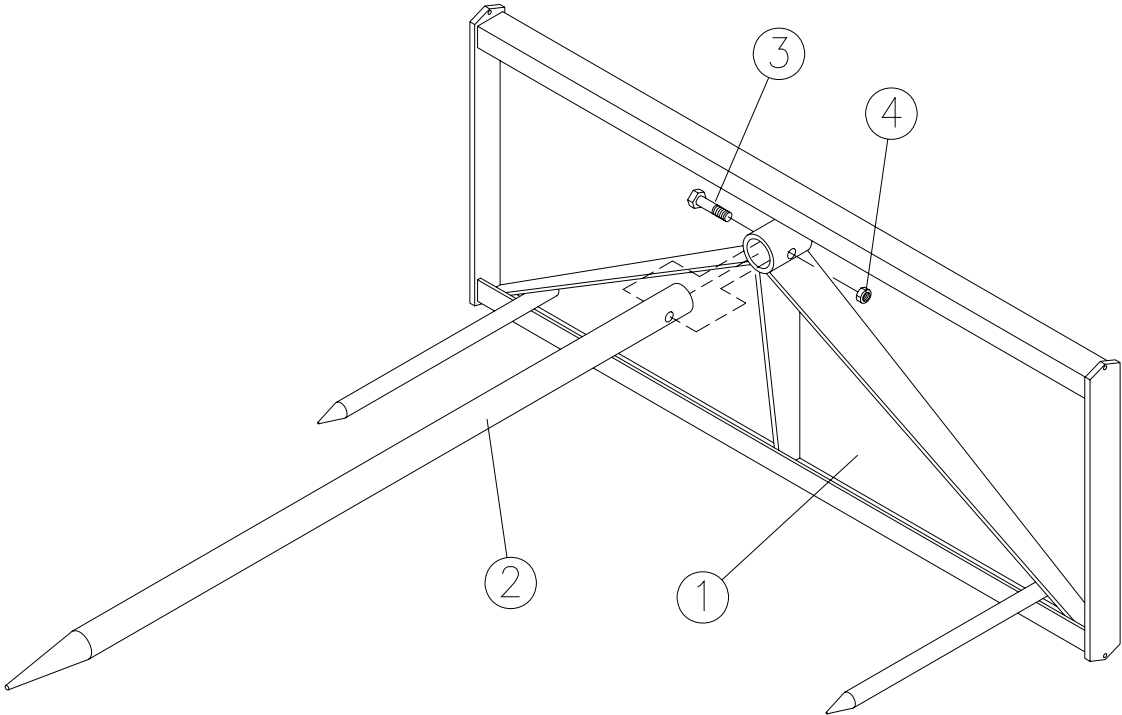


**SAFETY FIRST!! READ AND UNDERSTAND THE SAFETY INSTRUCTIONS (pages 2-5 of this manual) BEFORE BEGINNING ANY BALE MOVER MAINTENANCE**

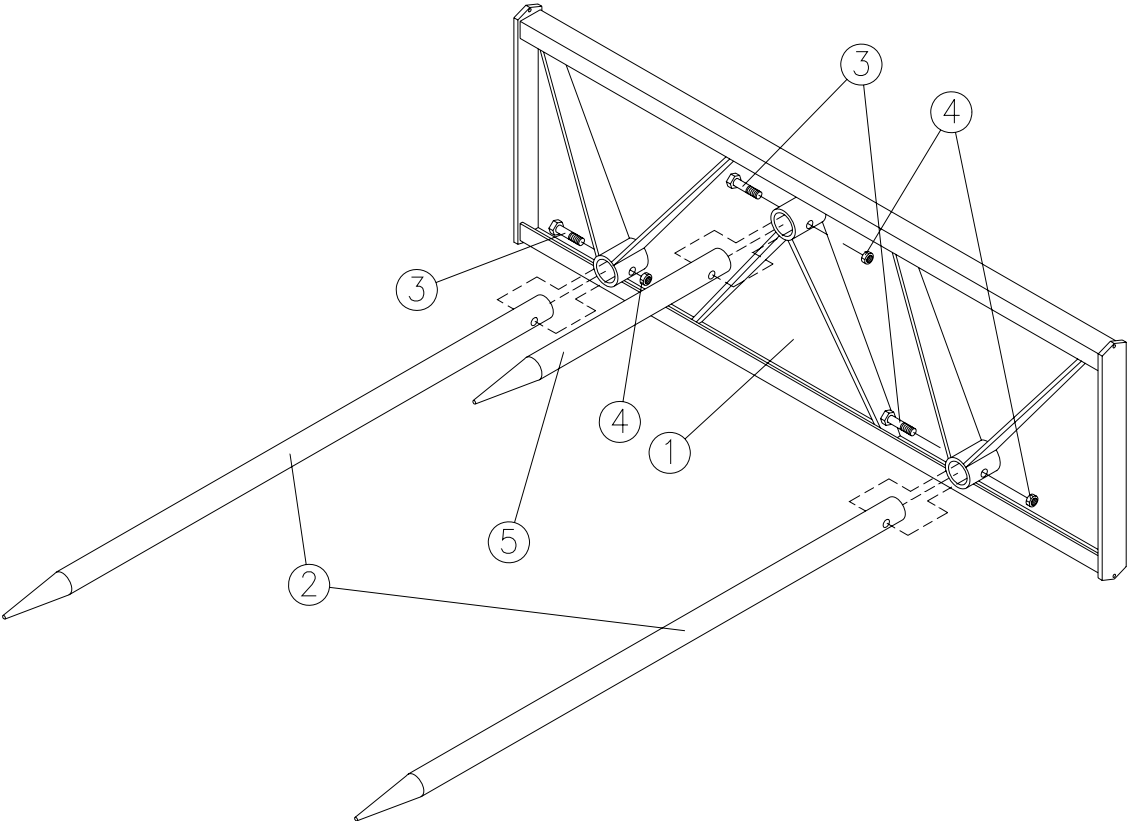
### BEFORE EACH USE

- Make sure that all nuts and bolts are in place and properly tightened.
- Make sure that all other fasteners are in place and are performing their specified function.
- Make sure that all safety signs are in place, are clean, and are legible.  
(SEE THE SAFETY SIGN SECTION)
- Replace any damaged parts and excessively worn parts.

PARTS ILLUSTRATION



(LAF1910 Above, LAF1920 Below)



**BALE MOVER PARTS LIST**

ITEM	QTY	LAF1910 (Standard)	LAF1915 (Wide Frame)	LAF1920 (Standard)	LAF1925 (Wide Frame)	DESCRIPTION
1	1	LAF1911	LAF1927	LAF1921	LAF1926	Main Frame
2	varies	(1)	(1)	(2)	(2) LAF1922	Main Bale Spike
3	varies	(1)	(1)	(3)	(3) RHW1612	Grade 5 Hex Head Cap Screw: 5/8" x 4"
4	varies	(1)	(1)	(3)	(3) RHW7602	Grade 5 Lock Nut: 5/8"
5	1	Not Used	Not Used	LAF1923	LAF1923	Upper Bale Spike

NOTE: All parts are the same as the LAF1925 except for those parts numbered under the other models.

**BALE MOVER SPECIFICATIONS**

Model Number	Overall Width	Overall Height	Overall Depth	Spear Length	Shipping Weight
LAF1910	48-5/8"	23"	46-5/8"	41-3/8"	220 lbs.
LAF1915	54-5/8"	23"	46-5/8"	41-3/8"	240 lbs.
LAF1920	48-5/8"	23"	46-5/8"	41-3/8"	340 lbs.
LAF1925	54-5/8"	23"	46-5/8"	41-3/8"	380 lbs.

**TORQUE SPECIFICATIONS FOR STANDARD MACHINE HARDWARE  
(FOR REFERENCE ONLY)**

Bolt Size	SAE Grade Bolt	Torque Ft./Lbs
5/8" - 11	5	150



**PALADIN LIGHT CONSTRUCTION**

**Warranty Registration Form and Delivery Inspection Report**

**IMPORTANT!** Warranty **Void** if card is not returned with 10 days.  
All Applicable sections **must** be filled in.

*This section to be filled out and signed by Dealer at time of delivery.*

**Warranty Registration**

Customer's Name _____	Dealer's Name _____
Address _____	Address _____
City _____ State _____ Zip _____	City _____ State _____ Zip _____
Phone _____	<b>CHECK ONE:</b>
Loader / Tractor Model _____	Construction Use _____
Delivery Date _____	Agricultural Use _____
Model or Part # _____	Landscape Use _____
Serial # _____	Other: _____

**Dealer Inspection** (check items applicable)

_____ All Decals installed (see operator's manual)	_____ Review Operating and Safety Instructions
_____ Hydraulic fittings tight and free of leaks	_____ Guards and covers in place and secure
_____ Fasteners tight	_____ Does Product Function Properly

I have thoroughly instructed the buyer on the above described equipment. This review included: The Operator's manual content, equipment care, adjustments, safe operation and applicable warranty policy.

Date \_\_\_\_\_ Dealer's Rep. signature \_\_\_\_\_

*This section to be completed and signed by the customer*

	1 Excellent	2 Good	3 Average	4 Unsatisfactory	5 Poor
<b>QUALITY ASSURANCE RATING</b>					
<b>Question:</b>					
Quality of Product: Appearance .....					
Construction .....					
Quality of Service .....					
Value (Priced Fairly) .....					
Does it perform as claimed .....					

The above described equipment and Operator's Manual have been received by me and I have been thoroughly instructed as to care, adjustments, safe operation and applicable warranty policy.

Date: \_\_\_\_\_ Owner's signature \_\_\_\_\_

**NOTE! Make one copy each for the dealer's and owner's records. Mail original to FFC Attachments.**



**PALADIN LIGHT CONSTRUCTION**

### **FFC LIMITED 12 MONTH WARRANTY**

Thank you for purchasing a FFC product. Warranty protection is valid only when this Warranty Registration is completed and signed by the customer and dealer, and mailed to FFC. I hereby acknowledge that I have received a copy of the owners Limited Warranty and I accept the terms therein.

For a period of 12 months from date of delivery of product to the original user, FFC, warrants each product to be free from manufacturing defects, subject to the limitations contained in this policy.

This warranty does not apply to defect caused, in whole or in part, by unreasonable use while in the possession of the user, including, but not limited to: failure to properly set up product; failure to provide reasonable and necessary maintenance; normal wear; routine tune ups or adjustments; improper handling or accidents; operation at speed or load conditions contrary to published specification; improper or insufficient lubrication; improper storage. This warranty is also not a guarantee that the performance of each product will meet the expectations of the purchaser.

FFC shall not be liable for consequential damages of any kind, including, but not limited to: consequential labor costs or transportation charges in connection with the replacement or repair of defective parts; lost time or expense which may have accrued because of said defects. In no event shall FFC, Inc.'s total liability hereunder exceed the product purchase price.

FFC makes no warranty with respect to trade accessories or any component or accessory of the product which was not manufactured by FFC, including any purchased components on any kind. These are subject to the warranties of their respective manufacturers. The warranty will be considered void if the product or any part of the product is modified or repaired in any way not expressly authorized by FFC, or if closed components are disassembled prior to return. Closed components include, but are not limited to: gearboxes, hydraulic pumps, motors, cylinders, and actuators.

Our obligation under the warranty is expressly limited, at our option, to the replacement or repair at FFC, of Lee, Illinois, or at a service facility designated by us, or such part or parts as inspection shall disclosed to have been defective. We are not responsible for unauthorized repairs or replacements. Any implied or statutory warranties, including any warranty of merchantability or fitness for a particular purpose, are expressly limited to the duration of this written warranty. We make no other express or implied warranty, nor is anyone authorized to make any in our behalf. This warranty cannot be extended, broadened, or changed except in writing by an authorized officer of FFC.