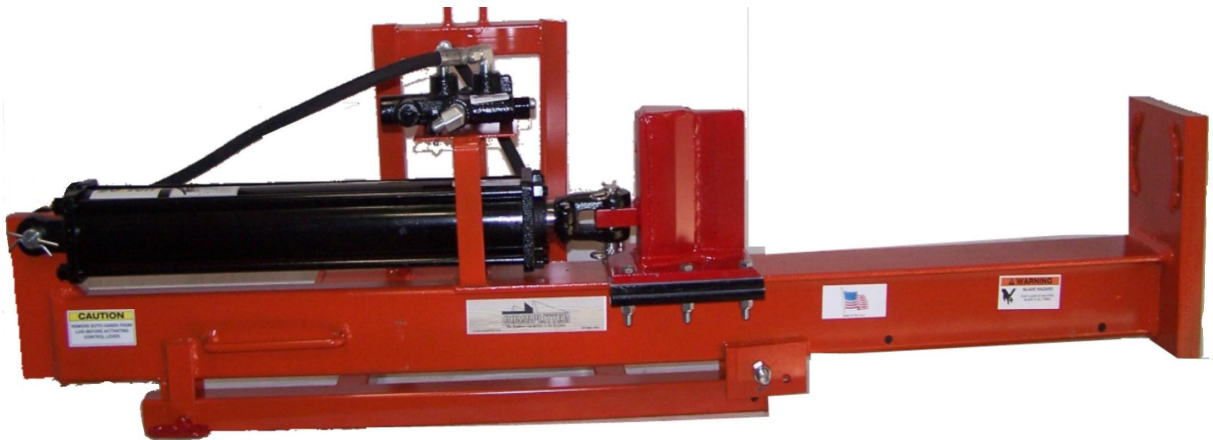


## **3 POINT TRACTOR HITCH MOUNTED ATTACHMENT LOG SPLITTER**



## **OPERATIONAL MANUAL**

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## **WARNING!**

This manual contains vital information for the safe use and efficient operation of this equipment.

**Carefully read this Operation & Maintenance Manual before using this equipment, as failure to adhere to the instructions could result in death, serious bodily injury and/or property damage.**

This log splitter is to be used only for splitting firewood logs.

Using this machine for any other purpose may cause injury and or property damage.

Improper use of this log splitter will void the warranty.



## **3 POINT TRACTOR HITCH ATTACHMENT LOG SPLITTER**

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## **DO**

Do make sure that anyone who operates this splitter reads and understands all operating instructions as to its proper use and operation as well as all safety instructions.

Do keep your work area clean. Don't leave wood lying around that you could stumble over.

Do keep hands and feet clear of splitter blade and out of splitter area while unit is in operation.

Do check hydraulic oil level before starting the splitter.

Do use the splitter only to split firewood logs. Use of the splitter for any other purpose is dangerous and will void the warranty.

Do wear eye protection and protective clothing including safety shoes at all times while the log splitter is in operation to avoid any hazard from flying wood.

Do keep children and pets away from the work area while you are operating the log splitter.

Do shut off the engine if you leave the log splitter, even for a short period of time.

Do operate the log splitter on a level surface

Do let go of the control lever after it is pushed forward. The ram will return automatically at the end of the stroke when control handle is reversed. The ram can also be stopped at any point in its travel and returned.

Do remove both hands from the log before activating the control lever.

Do be sure the log splitter is kept in sound mechanical condition. Proper care, maintenance and following all operating and safety instructions will provide you with many years of trouble.

## **DO NOT**

Do not allow anyone to operate the log splitter until they have read and understand the operating and safety instructions.

Do not allow anyone under the age of 18 to operate the log splitter.

Do not operate the log splitter in the vicinity of or near children or pets.

Do not wear jewelry or loose fitting clothing or clothing with drawstrings when operating the log splitter, as such jewelry or clothing may become entangled in the moving parts of the log splitter.

Do not operate the ram control any way other than by hand.

Do not leave the log splitter unattended with the engine running.

Do not operate the log splitter beyond the capabilities as outlined in the owner's manual and operating instructions.

Do not step over the log splitter when running. Walk around the log splitter to get to the other side.

Do not straddle the log splitter with the engine running or during operation.

Do not allow anyone to stand near the cutting wedge when you are splitting wood, because wood may fly and become hazardous.

Do not stand on slippery, wet, muddy or icy surfaces when operating the log splitter. Operate only when operator zone is clear for safe, secure footing.

Do not operate the log splitter inside a building or other closed in area that does not have adequate ventilation.

Do not operate the log splitter if it is need of repairs or maintenance services.

Do not make any modifications, alterations or changes to the original configuration of the log splitter. This may cause death or serious injury and will void the warranty.

## Do Not (Continued)

Do not load a log onto the log splitter by holding the log at both ends of the log. Do not place your hands between the cutting wedge and the log or between two pieces of wood and the frame. See operations manual for proper loading instructions.

Do not service or repair the log splitter without removing the hydraulic feed hoses.

Do not allow anyone except the operator within 10 feet of the log splitter during operation.

Do not operate the log splitter with any hydraulic fluid leak. Check hydraulic hoses before operating log splitter and repair or replace as necessary.

Do not use any chemical cleaners or high pressure wash systems or steam cleaners to clean the log splitter. Use only a mild detergent and warm water for cleaning. Any other method may void your warranty.

Log splitters *are not* shipped with hydraulic fluid. You will need to purchase this for your splitter. We recommend that you purchase Dextron 3 Automatic Transmission fluid. This allows you to operate the log splitter in colder weather.

When initially connecting the log splitter to your equipment, hydraulic oil will be taken from your tractor or skid steer hydraulic system. Make sure you add new oil to your hydraulic system prior to using the log splitter.

## **-General Description-**

Read carefully before attempting to install, operate or service the Ramsplitter log splitter. Retain this information for your future reference.

Your Ramsplitter log splitter is American made and constructed of the best materials available to do the job. Your safety has been considered in every feature and component of your Ramsplitter log splitter.

When the control valve is moved to the forward extent position, oil is allowed to flow through the hoses to the rear of the cylinder which, in turn, forces the ram to extend outward toward the wedge. When the control lever is reversed and put in the retract position, the direction of the oil flow is changed and the high pressure oil is forced into the front of the cylinder, thereby retracting the ram. A large reservoir stores and cools the hydraulic oil and incorporates a high density filter to filter out any foreign particles and, therefore greatly extends the life of your Ramsplitter log splitter. A safety relief valve is preset at the factory to protect the hydraulic system from excessive pressures.

The same operation applies to your tractor attachment or Skid Steer attachment. When you hook up to the hoses up to your auxiliary outputs, make sure you have the oil flowing in correct direction. Make sure when you activate the handle on the valve that the cylinder moves forward when you push the handle to the forward position. If this does not happen you have the flow of the oil reversed.

## **Tractor Mounted and Skid steer mounted**

The log splitter is designed to work off the hydraulics of the piece of equipment you are attaching to the log splitter. Since there are so many different types of styles of Tractors and skid steers it is impossible to list every configuration. The following parameters should be used when hooking to the hydraulics of this equipment, But Refer to your owners Manual of Your tractor or skid steer to insure proper connection.

1. The hoses will need to have quick disconnects to hook into and match your equipment.
2. Hook the log splitter up so you have a continuous flow of hydraulic oil to the valve on the log splitter. This may require disconnecting other attachments on your tractor to connect the log splitter for operation. Refer to your tractor manual to connect these hoses and what you will need to do to maintain the continuous flow of hydraulic oil. When using a splitter with no external valve, hook up the hoses so a valve on your Equipment can operate the splitter properly.
3. When using a splitter with no external valve, hook up the hoses so a valve on your equipment can operate the splitter properly.
4. If you are using a PTO shaft of your tractor. There is a bracket and chain assembly included to hold the pump into place



## **-Log Splitter Preparation Procedure-**

**The following items must be accomplished and checked before machine operation.**

Log splitter should be in a level position and used only out of doors, not in an enclosed area.

Make sure all connections, lines and hoses are tight and not damaged before filling with fluids.

When hooking up your Log Splitter Attachment insure all hoses are properly tightened before turning on the Hydraulic power source.

DO NOT start the log splitter engine until hydraulic oil is added to the hydraulic system.

When filling the hydraulic system of the log splitter with hydraulic oil, add Dextron II or III or any light hydraulic oil, such as Mobil DTE 13M or equivalent. Fill the hydraulic reservoir within 1 inch from the top of the reservoir. Replace the reservoir cap.

Cycle the ram forward and reverse several times until ram movement is smooth and even. Do a final hydraulic oil check. Inspect all hoses, lines and fittings for leakage. Correct any leakage before continuing usage. Your Ramsplitter log splitter is now ready for service!

## **-General Safety Information-** **Training**

Read & understand the Operation & Maintenance Manual and all safety instructions before attempting to use this log splitter.

Do not allow anyone to operate your log splitter who has not read the Operation & Maintenance Manual and safety instructions or has not been instructed on the safe use of the log splitter.

Never allow children or untrained adults operate this log splitter.

Never allow anyone under the influence of any substance (drugs, alcohol, etc.) to operate this log splitter.

Most accidents occur when more than 1 person operates the log splitter at any time. If a second person is assisting in providing logs to the operator to be split, never activate the controls until the assistant is clear of the work area. Only one person must run the log splitter at a time.

Never allow anyone to ride on the log splitter at any time.

Never transport or store cargo on the log splitter at any time.

Extremely high fluid pressures are developed in hydraulic log splitters. Pressurized hydraulic fluid escaping through a pin hole opening can puncture skin and cause severe injury. Therefore, the following instructions should be followed at all times.

Do not operate the log splitter with frayed, kinked, cracked or damaged hydraulic hoses, fittings or tubing.

Avoid high pressure fluid leaks. Hydraulic oil escaping from a small hole can be almost invisible but it can penetrate skin, causing serious injury. Use pieces of cardboard or wood to detect leaks, rather than using your hands.

Stop the engine and relieve hydraulic system pressure before changing or adjusting fittings, hoses, tubing or other system components.

Do not adjust the pressure settings of the pump or valve.

Do not check for leaks with your hands. Leaks can be located by passing cardboard or wood over the suspected area of the leak. Look for discoloration. If you are injured by escaping hydraulic oil, seek medical attention immediately. Serious infection can result if proper medical care is not administered immediately.

## **General Safety Information (Continued)-**

The log splitter must be used only for splitting fire wood and should be split only in the direction of the grain (not across the diameter of the log).

Keep the operator zone and adjacent area clear to ensure safe, secure footing. The operator zone is the entire area from the operator to ten feet away from the operator. No other assistant should be within this operating area when the machine is in use.

## **Preparation**

Be thoroughly familiar with all of the controls and with the proper use of the log splitter.

Always wear safety shoes or heavy boots. (No athletic shoes)

Always wear safety glasses or goggles with side shields and hearing protection when operating the log splitter.

Wear safety gloves.

Never wear jewelry, loose clothing or clothing with strings or cords that may become entangled in moving or rotating parts of the log splitter.

Make sure the log splitter is on a level surface.

Always operate the log splitter from the indicated operator zone.

Cut all logs to be split as squarely as possible.

## Operation

1. Before starting this log splitter, read and understand this entire manual including the Do Be Careful and General Safety Information. Failure to follow these rules may result in serious injury to the operator or bystanders.
2. Never leave the machine unattended with the power source operating.
3. Never operate the machine when you are under the influence of alcohol, drugs or medication.
4. The machine owner must instruct all operators in the safe operation of this log splitter.
5. Always operate the log splitter with all safety equipment in place and all controls properly adjusted for safe operation.
6. Do not run the engine at excessive speeds. Doing so increases the hazard of personal injury. Do not tamper with parts that may increase the speed recommended by the manufacturer.
7. Always keep hands and feet away from moving parts.
8. Always shut off the engine when adjusting or repairing the log splitter except as recommended by the manufacturer.
9. Do not run the engine in an enclosed area. Exhaust gas contains carbon monoxide, an odorless and deadly poisonous gas.
10. When loading the log splitter, place your hands on the sides of the log. Never place your hands or any part of your body between a log and any part of the log splitter.
11. Never attempt to split more than one (1) log at a time.
12. When the logs are not cut square, the longest portion of the log should be rotated down and placed at the cutting wedge end.
13. Use only your hand to operate the log splitter controls.
14. Operate the log splitter using only one operator. Only the operator should be within 10 feet of the machine while the log splitter is operating.
15. Read and follow all safety and warning decals installed on the machine.
  16. On vertical models, keep hands away from the cutting wedge.
  17. On vertical models maintain balance of the beam when raising or lowering the beam.
  18. On vertical models make sure the safety pin is installed when the unit is in the vertical or splitting mode or in the horizontal.
  19. Do not refuel the engine until it has cooled for several minutes.

## **Maintenance and Storage**

**Note:** For proper maintenance, keep a written record of hour use and maintenance. Also see page 11 for further details.

Clear debris from movable parts, but only when the power source is shut off. Check to be sure all nuts and bolts are tight to assure the log splitter is in safe working condition.

Check engine oil level and hydraulic oil level.

Check the wear strips on the slide plate under the cutting wedge. All models equipped with wear strips should be inspected and have the wearstrips replaced as needed.

## **Controls**

### ***Ram control valve***

To extend the ram, push the control lever to extend as the decal on the valve indicates. Holding the lever in this position, the ram will continue to travel forward to its fully extended position until either the control lever is released or until the ram reaches its fully extended position.

As a safety precaution, when the control lever is released it will automatically move to the center hold position, and the ram will stop. This control lever feature is referred to as a “dead man” control switch. To move the ram, push the control lever in the same direction as wish the ram to move.

## **-Periodic Maintenance-**

**Check hydraulic oil ..... Daily**

**Inspect hydraulic hoses .....Daily**

**Check wear strips .....Monthly**

**Inspect for and repair damaged parts .....Daily**

**Inspect all bolts & fittings and tighten as needed..... Weekly**

## **-Identification-**

Additional or replacement manuals may be obtained from Ramsplitter. When the log splitter has been received, complete the following record:

Model: \_\_\_\_\_

Date of purchase: \_\_\_\_\_

Where purchased: \_\_\_\_\_

Always mention the log splitter model number when ordering or inquiring about parts or service.

For convenience in ordering, parts are listed by part number, description and quantity. If in doubt as to what part is needed, send a full description, sketch or the part itself with the order. Prior arrangements must be made before returning a unit or part for warranty service. Service calls should be directed to customer service at 1-815-398-4726.

## **-Storage-**

### **For safe storage:**

Clean dirt and debris from the engine and log splitter.

To prevent rusting, coat the areas where paint has been scraped with an oil based rust inhibitor. Do not use heavy oil or grease because this will cause premature wear. Wipe off rust inhibitor before use.

Store the log splitter with the ram in fully retracted position.

It is required that you drain all of the gasoline from the gasoline tank and run the log splitter until all of the carburetor gasoline is exhausted before storing the log splitter.



## **-Warranty Information-**

Each new product is warranted against manufacturing defects in workmanship and / or materials under normal use and service for a period of 12 months from the date of delivery of the product to the original purchaser. Ramsplitter obligation under this warranty shall be limited to the replacement to the original purchaser of any part, which, as delivered to the original purchaser, and upon Ramsplitter examination, is shown to Ramsplitter satisfaction, to be defective due to faulty workmanship or materials at the factory.

This warranty does not apply to damage in transit, damage caused by user misuse, negligence, accident, normal wear or alterations or repairs done outside the factory and / or authorized service stations as determined by Ramsplitter. This warranty does not apply to any labor charges in connection with the replacement parts claimed to be defective.

All parts claimed to be defective must be returned to Ramsplitter factory for inspection, repair or replacement, with all transportation or mailing charges prepaid. It is the exclusive responsibility of the purchaser to bear the transportation or mailing charges in any warranty claim.

This warranty specifically excludes engines or batteries, which are warranted separately by their respective manufacturers, all claims for defective hydraulic pumps, valves, batteries, engines or engine parts must be made in accordance with the pump, valve, battery, or engine manufacturer's warranty. This warranty also specifically excludes costs of regular maintenance and replacement of service items such as belts, hoses, blades, tires and similar items.

Ramsplitter reserves the right to make changes upon Ramsplitter's products without imposing any obligation upon Ramsplitter, to install the same product manufactured prior to the change.

Ramsplitter makes no other warranties, representations or promises other than those set forth herein. **Ramsplitter specifically disclaims any and all implied warranties of fitness for particular purpose and merchantability.**

The remedies available to a distributor, dealer, and / or purchaser in connection with Ramsplitter's warranty are set forth above. In no event will Ramsplitter be liable for special, incidental or consequential damages.

### **-Ramsplitter Warranty Procedure-**

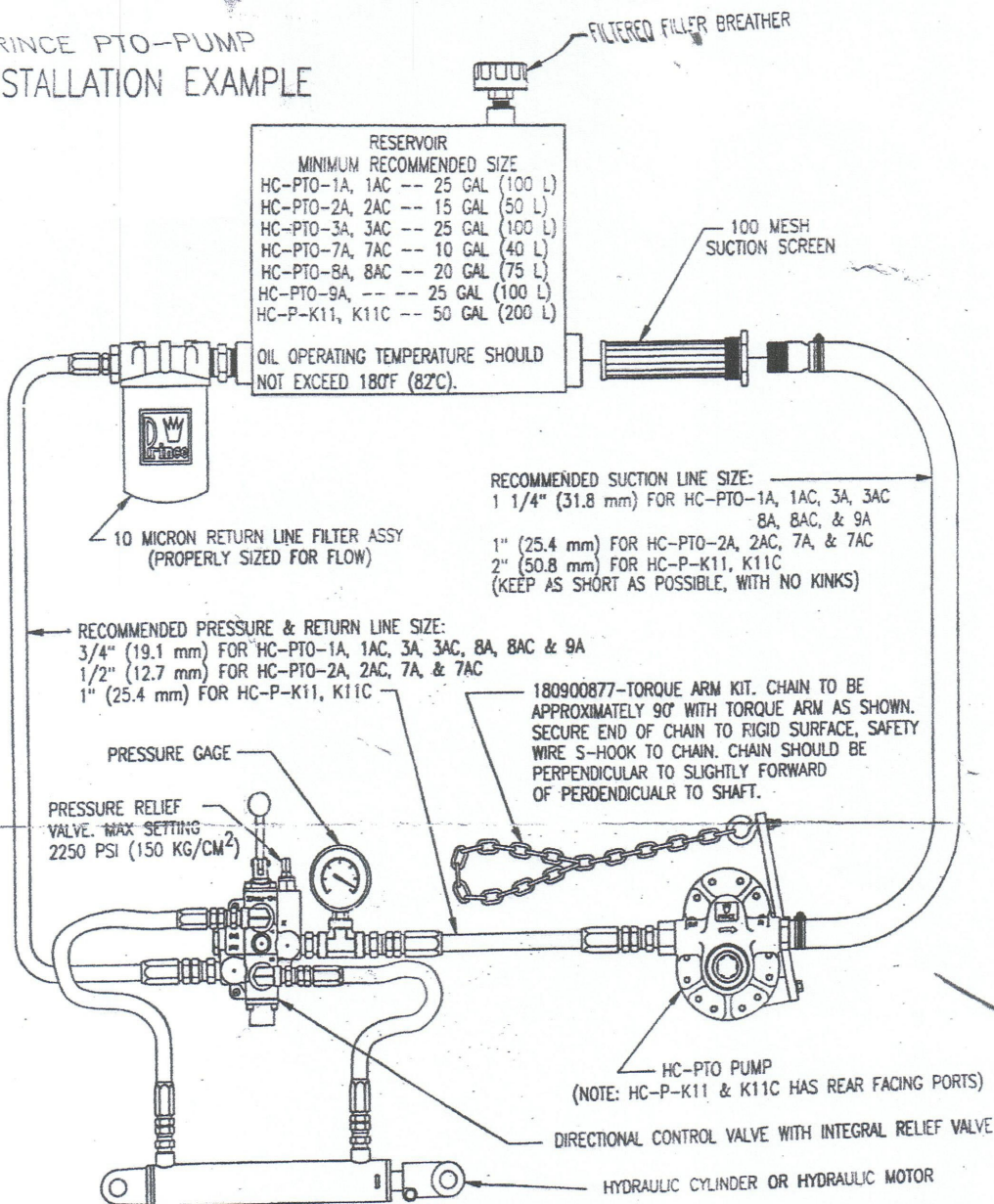
1. All requests for warranty must have approval from Ramsplitter before Work starts, or the warranty claim will be denied.
2. All requests for warranty service must be made on a Ramsplitter warranty claim form. This form is available from Ramsplitter or one of our authorized distributors or dealers. Forms can be faxed or mailed to you at no charge.
3. It is the responsibility of the distributor, dealer and / or purchaser to complete the warranty claim form and submit it to Ramsplitter
  - A. The form must be filled out completely. It is the sole responsibility of the purchaser to obtain the proper and correct information for the warranty claim. Claims received without serial numbers, model numbers, replacement part numbers, purchase date, purchaser's correct address, signature or other information requested by Ramsplitter shall be returned without service.
  - B. Warranty claims that are illegible will be returned without service. Please carefully type or print in black ink.
  - C. Ramsplitter warranty makes no allowance for the time spent to fill out the warranty claim form or to discuss the warranty claim with Ramsplitter personnel. Any such claim will be denied.
  - D. All returned parts will be retained and tagged for a period of sixty (60) days or until credit is issued.
  - E. The factory may request parts be returned for examination or analysis. These parts shall be sent by prepaid freight to Ramsplitter. Returns sent freight collect, without the express, written permission of Ramsplitter shall not be accepted by Ramsplitter.
  - F. It is the responsibility of the purchaser to review the warranty claim and to comply fully with all of the procedures set forth herein. Failure to do so will result in the denial of the warranty claim.
4. Any warranty payments by Ramsplitter will be paid by credit memo to the distributor, dealer or purchaser.
5. All warranty claims, which are denied, will be returned with a reason for denial.
6. Labor allowance.
  - A. The warranty labor rate is \$40.00 per hour
    - B. The actual time is divided into tenths of an hour. The warranty form should show the time to the nearest tenth of an hour.
    - C. Labor credit is based on the actual time required only to make the repair.

7. Items not covered by warranty.
- A. Mileage and transportation charges of any kind. All warranty is “Bench Work” only. The warranty specifically states that any transportation charges in connection with a warranty repair is the exclusive responsibility of the purchaser.
  - B. Postage, delivery, telephone calls or similar communications.
  - C. Normal maintenance or adjustments. This includes set up and service.
  - D. Battery, engine or engine parts. Warranty on batteries, engines, engine parts or other vendor parts is covered by the component manufacturer’s warranty and must be handled by that component manufacturer’s representative.
  - E. Failure caused by neglect, normal wear, or abuse.
  - F. Any alteration of the original design of the unit, or the use of unauthorized or Non - Ramsplitter parts. Any claim submitted containing such unauthorized alteration repairs will be rejected.
  - G. Freight or transportation damage. All such damage is the responsibility of the carrier and any claim for damages must be made with the carrier.
  - H. Parts or labor supplied for an unauthorized supplier or repair facility.
  - I. Compound or repeat warranties caused by negligent / improper repair.
  - J. Any claim for warranty where the date of the repair exceeds thirty (30) days from the submission of the warranty claim.
  - K. Any claim for warranty on the entire unit.
  - L. Warranty claims involving oils or fluids of any kind.
  - M. Any warranty claims for leaking, punctured, blown, and flat or otherwise damaged tires on units that have been placed in service.
  - N. Lost time, lost rentals, lost profits, or other economic loss due to warranty work.

Voluntary cooperation with the entire warranty procedure will make the program work better for both the purchaser and Ramsplitter.

**Always think SAFETY!**

# PRINCE PTO-PUMP INSTALLATION EXAMPLE

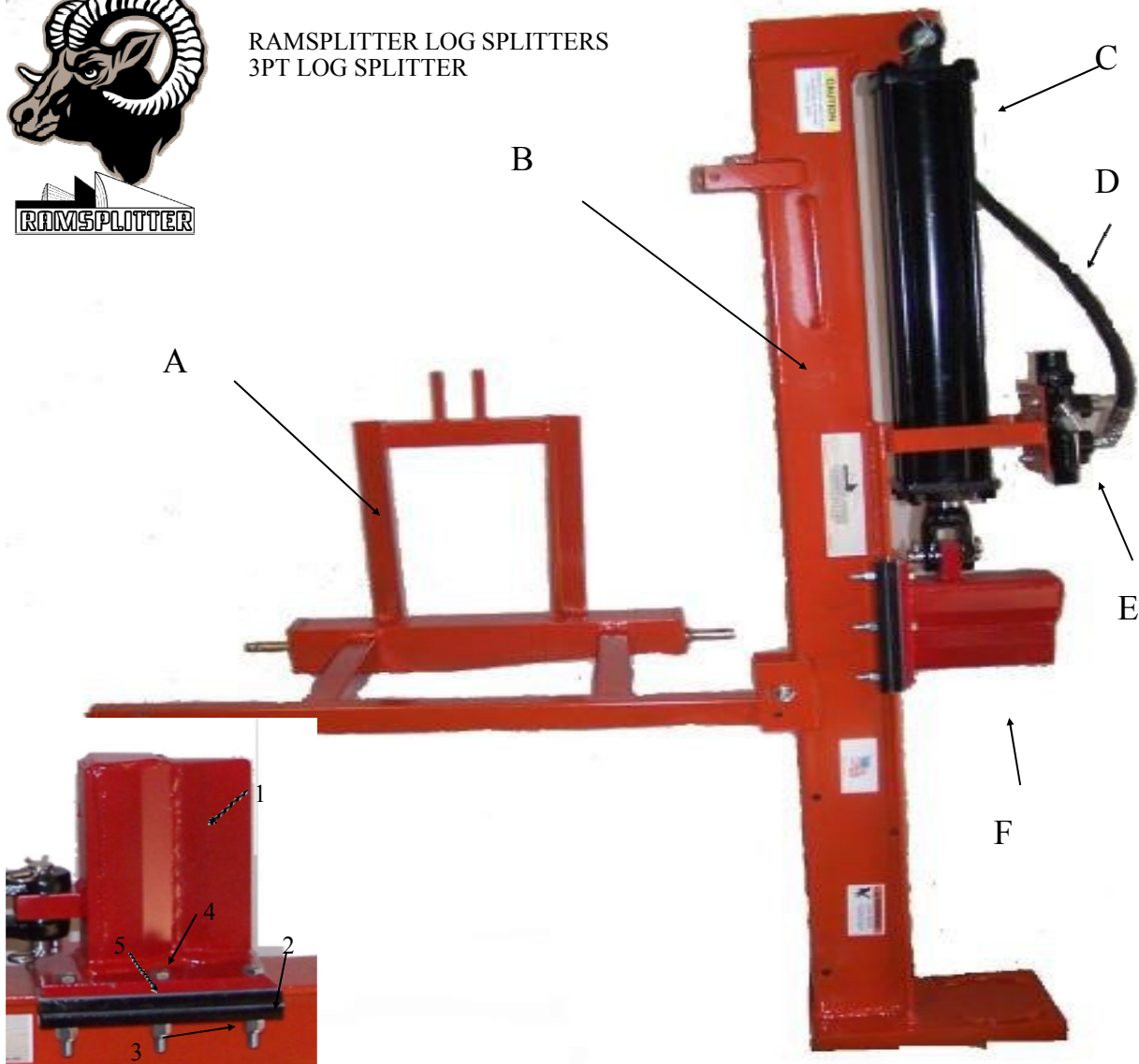


PUMP MODEL	DESIGN RPM	MAXIMUM RPM	FLOW AT DESIGN RPM*	INPUT POWER AT DESIGN RPM*	REQUIRED SHAFT TYPE
HC-PTO-1A,1AC	540	600	21.0 gpm (79.5 l/min)	32.1 HP (23.9 kW)	1 3/8" (34.9 mm), 6 TOOTH
HC-PTO-2A,2AC	540	600	11.4 gpm (43.1 l/min)	18.1 HP (13.5 kW)	1 3/8" (34.9 mm), 6 TOOTH
HC-PTO-3A,3AC	1000	1100	22.4 gpm (84.8 l/min)	34.3 HP (25.6 kW)	1 3/8" (34.9 mm), 21 TOOTH
HC-PTO-7A,7AC	540	600	7.1 gpm (26.9 l/min)	11.9 HP (8.9 kW)	1 3/8" (34.9 mm), 6 TOOTH
HC-PTO-8A,8AC	1000	1100	13.5 gpm (51.1 l/min)	22.6 HP (16.7 kW)	1 3/8" (34.9 mm), 21 TOOTH
HC-PTO-9A	540	600	17.1 gpm (64.7 l/min)	27.4 HP (20.4 kW)	1 3/8" (34.9 mm), 6 TOOTH
HC-P-K11, K11C	1000	1100	40.0 gpm (151 l/min)	64.8 HP (48.3 kW)	1 3/8" (34.9 mm), 21 TOOTH

\*Numbers based on 2000 psi (140 Kg/cm<sup>2</sup>)



**RAMSPITTER LOG SPLITTERS  
3PT LOG SPLITTER**



**LETTER PART NAME**

A	CATEGORY 1 HITCH ATTACHMENT
B	BEAM
C	CYLINDER
D	HOSE
E	VALVE
F	WEDGE
F-1	3PT WEDGE
F-2	SPACERS
F-3	NUTS
F-4	BOLTS
F-5	NYLON STRIPS

**PART NUMBER**

HITCHHV3PT
MODEL- BEAM
218-355
08HL1HAHF48-1
LS755T4JRSH
HV16WEDGE
LSS052
NNE050CSTZI
HC5050C00250ZI