

# LOG BUSTER

BUILT WITH QUALITY AND DESIGN FIRST

## LOG BUSTER OPERATING & PARTS MANUAL

### ATTENTION:

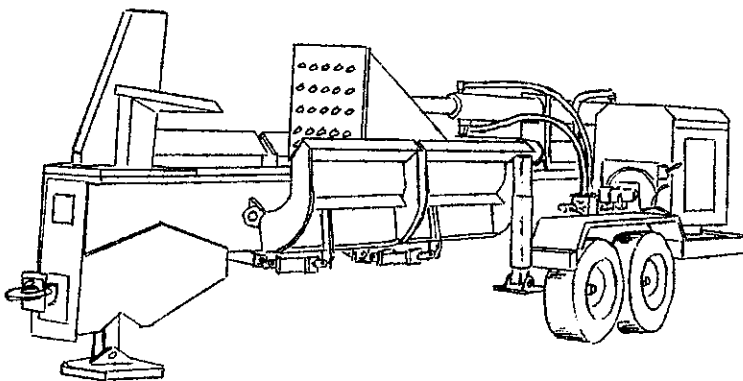
Depending on what replacement parts you are ordering, we will need the following information:

#### LOG SPLITTER COMPONENTS

Serial Number  
Model Number of Splitter

#### ENGINE COMPONENTS

Engine Size  
Engine Serial Number  
Engine Spec Number



Model No: Log Buster

Serial No: \_\_\_\_\_

DEALER:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City/State: \_\_\_\_\_

Phone No: \_\_\_\_\_

Delivery Date: \_\_\_\_\_

Engine Make: \_\_\_\_\_

Serial No: \_\_\_\_\_

Clutch Make: \_\_\_\_\_

Model: \_\_\_\_\_ S/N: \_\_\_\_\_

PRINTED 12/98

MANUFACTURED BY  
**PERFORMANCE FIRST, INC.**

6750 Millbrook Road

REMUS, MICHIGAN 49340

PHONE: (517) 561-2270 OR 561-2272

FAX: (517) 561-2273 ~ SALES DEPT.

FAX: (517) 561-2962 ~ PARTS/SERVICE



**IT IS VERY IMPORTANT THAT THIS FORM IS FILLED OUT COMPLETELY & ACCURATELY. IF WE CANNOT READ THE PURCHASER'S INFORMATION OR IT IS INCORRECT, THE FREE SERVICE & MAINTENANCE VIDEO WILL NOT GET TO THE PROPER PEOPLE AND OUR CUSTOMER LIST WILL NOT BE ACCURATE.**

**IMPORTANT - THIS FORM MUST BE RETURNED TO THE CUSTOMER DATA DEPARTMENT WITHIN TEN (10) DAYS IN ORDER TO RECEIVE FREE MAINTENANCE VIDEO AND VALIDATE WARRANTY**

Customer Data Department  
6750 Millbrook Road  
Remus, MI 49340  
Phone: (517) 561-2270  
Fax: (517) 561-2273

## LOG SPLITTER WARRANTY VALIDATION FORM

### PURCHASER INFORMATION:

Company Name \_\_\_\_\_ Mailing/Street Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_  
Telephone Number (\_\_\_\_) \_\_\_\_\_ Contact Name \_\_\_\_\_  
Log Splitter Model No. \_\_\_\_\_ Serial No. \_\_\_\_\_  
Date Splitter Put Into Service \_\_\_\_\_ Engine Make & S/N \_\_\_\_\_

### DEALER INFORMATION:

Dealer Name \_\_\_\_\_ Mailing/Street Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_  
Telephone Number (\_\_\_\_) \_\_\_\_\_ Contact Name \_\_\_\_\_

1. \_\_\_\_\_ Customer has been instructed and understands operation and all safety aspects of operating the equipment.
2. \_\_\_\_\_ Customer has been advised and understands that the operator must be at a safe distance from the blade or cradles when operating the machine.
3. \_\_\_\_\_ Customer has been instructed and understands to always remove the engine key or completely disconnect battery from cables, before performing any type of maintenance on the machine.
4. \_\_\_\_\_ Customer has been furnished with all parts and operators manuals and understands that his operators must read and follow the procedures.
5. \_\_\_\_\_ Customer has been instructed and understands equipment maintenance schedules and procedures.
6. \_\_\_\_\_ Customer understands that it is his responsibility to perform maintenance that includes periodic relief valve adjustments, retightening all fasteners as needed, etc.
7. \_\_\_\_\_ Customer has reviewed and understands limited warranty as explained in owners manual.
8. \_\_\_\_\_ All operation and warning decals are properly displayed on equipment and understood by customer.
9. \_\_\_\_\_ Customer has been instructed and understands that everyone within 100 feet of machine must wear personal safety equipment (i.e. hard hat, safety glasses, etc.)
10. \_\_\_\_\_ Customer has been instructed and understands that the machine operator must always be located within easy reach of feed control and shut down devices.

**I have inspected this equipment and find it in correct working condition. To the best of my knowledge, the customer and his personnel are aware of the above procedures.**

Date: \_\_\_\_\_

Signed: \_\_\_\_\_

Dealer Representative

**The equipment has been thoroughly checked by the above named dealer representative, and I am satisfied with his instructions.**

Date \_\_\_\_\_

Signed: \_\_\_\_\_

Purchaser



**TO BE RETURNED AFTER THIRTY (30) DAYS OF OPERATION**

Please return to: **Customer Data Department**  
**6750 Millbrook Road**  
**Remus, MI 49340**  
**PH: (517) 561-2270**  
**FAX (517) 561-2273**

DATE PURCHASED: \_\_\_\_\_  
MODEL: \_\_\_\_\_  
SERIAL NUMBER: \_\_\_\_\_  
DEALER NAME: \_\_\_\_\_

**LOG SPLITTER QUALITY REPORT**

All of the employees that build your equipment strive to manufacturer the **very highest quality** product on the market. We would appreciate your efforts in letting us know how we are doing.

We would like you to operate your machine for thirty (30) days and then fill out this questionnaire and mail it to us. This will help us to keep producing a good product and improving our products through your recommendations.

1. Did your Log Splitter perform to your expectations? \_\_\_\_\_
2. Was the machine delivered on schedule? \_\_\_\_\_
3. Was the paint color and finish to your satisfaction? \_\_\_\_\_
4. Was machine equipped as ordered? \_\_\_\_\_
5. Did all welds appear to be of high quality? \_\_\_\_\_
6. Was the overall machine to your liking? \_\_\_\_\_
7. What problems have you experienced? \_\_\_\_\_
8. Have any components regularly loosened that caused problems? \_\_\_\_\_
9. Does the hydraulic system seem to have adequate power for splitting wood? \_\_\_\_\_
10. Is the machine manufactured to accommodate service in an adequate manner? If not, please explain:  
\_\_\_\_\_
11. General comments and/or suggestions: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
12. Would you like to be contacted concerning more of our equipment? \_\_\_\_\_

YOUR COMPANY: \_\_\_\_\_  
NAME: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
CITY: \_\_\_\_\_  
STATE & ZIP: \_\_\_\_\_  
PHONE: (\_\_\_\_) \_\_\_\_\_






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NOTE- ANY PART, PORTION, DESIGN, NUMBER, SPECIFICATION, AND/OR DIMENSION IN THIS MANUAL IS SUBJECT TO CHANGE WITHOUT NOTICE BY THE MANUFACTURER.

## INTRODUCTION

The purpose of this manual is to provide the user with specifications and procedures for the operation, maintenance and repair of the BANDIT LOG SPLITTER. As with any piece of equipment, safety should always be a constant thought while the machine is being operated, serviced or stored. In order to highlight this consideration, the material which addresses safety is preceded by the following signal words:

Signal Word	Likelihood of Occurrence	Degree of Potential Injury or Damage
 <b>DANGER</b>	Will occur if warning is ignored	Severe
 <b>WARNING</b>	Can occur if warning is ignored	Severe
 <b>CAUTION</b>	Will or can occur if warning is ignored	Minor to Severe
<b>NOTICE</b>	Important, but not hazard related	Minor

The Log Splitter is designed and manufactured in accordance with the latest industry standards. This alone does not prevent injury. It is the operator's responsibility to use good judgement and follow the warnings and instructions as indicated in this manual.

### **WARNING**

Improper use of the Log Splitter can result in severe personal injury. Personnel using the Log Splitter must be qualified, trained and familiar with the operating procedures as defined in this manual.

### **WARNING**

It is the responsibility of the owner or employer to insure that the operator is trained and practices safe operation while using and servicing the machine. It is also the owner's responsibility to provide and follow a regularly scheduled preventative maintenance and repair program on the Log Splitter, using only factory approved replacement parts. Any unapproved repairs or modifications may not only damage the machine and its performance, but could result in severe personal injury. Consult the equipment manufacturer!!!

Each machine is shipped with a manual, a customer's check sheet on the Log Splitter, and any available parts & service manuals on component parts not produced by this manufacturer. Additional copies of these manuals and check sheets can be purchased from the manufacturer, or through the dealer. Engine parts, service and maintenance manuals **MUST** be purchased through the engine manufacturer or their dealer.

**NOTE** - The producer of the Bandit Log Splitter reserves the right to make any modifications or revisions to the design or specifications of its machine without advance notice. The producer also reserves the right to change machine and part prices as needed without advance notice.

# Bandit







# SAFETY PROCEDURES

Regardless of how hard a manufacturer tries to produce a safe machine, accidents still happen. Normally accidents are caused by people making mistakes. They do not read the manual, they ignore warning decals or do not use lockouts provided for their safety. This normally happens after the person has become accustomed to the machinery. In the initial start up and operation of the machinery, they are cautious, they are very careful because they do not understand the machine.

Never throw in any materials that might contain wires, stones, nails, or other metal objects which may damage the blade and become dangerous projectiles.

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## DANGER

Before starting the machine, take a minute to check a few things. The Log Splitter should be in an area restricted from people passing by. This area around the Log Splitter must be free of all objects that can obstruct your movement when working with the splitter. The machine should be checked for loose tools or foreign objects. All tools not in use should be secured in a tool box.

---

## DANGER

DO NOT operate this machine indoors! Exhaust fumes can be fatal. When you are refueling the machine, DO NOT SMOKE, make sure the engine is shut off, do not allow any hot or burning materials near the Log Splitter.

Never check for hydraulic leaks by touching hoses or fittings with your bare hands. Hydraulic fluid under pressure can penetrate the skin. Use a piece of cardboard to find leaks. Never use your bare hands.

To obtain the most from your Log Splitter, for the least amount of cost, it is a good practice to set and follow a scheduled preventative maintenance program. It will eliminate many possible problems and down time.

---

## WARNING

Most of the nuts used on the Bandit Log Splitter are self locking. After the nut has been removed five times, it should be replaced to insure proper tightness.

# SAFETY PROCEDURES

## **⚠ DANGER**

The words Danger!, Warning!, and Caution are used on the safety decals and throughout this manual, to make you aware of the safety procedures. These procedures are very important, read and obey them.

### **YOUR SAFETY IS VERY IMPORTANT TO US!**

This machine is equipped with safety decals, guards and designs for your protection.

Don't ever take the machine for granted, always be cautious and careful when operating your equipment.

Read and follow all the instructions in your manuals thoroughly. Your safety is dependent on your knowledge of how to operate and maintain this machine. You may obtain additional copies of this manual from your Bandit Dealer.

Before operating your Log Splitter, you must have all potential operators; read and understand manuals, and follow the recommendations.

### **⚠ WARNING**

Operators **must** at all times be located within easy reach of feed control and shut-off devices when the unit is running.

### **⚠ DANGER**

NEVER work on the Log Splitter unless the engine ignition is shut off and the ignition key is removed, and in your pocket, and the coil wire disengaged.

### **⚠ WARNING**

**DO NOT GO NEAR HYDRAULIC LEAKS!**  
High pressure oil easily punctures skin causing serious injury, gangrene, or death.  
If injured, seek emergency medical help.  
Immediate surgery is required to remove oil.  
**DO NOT** use fingers or skin to check for leaks.  
Lower load or relieve hydraulic pressure before loosening fittings.

### **⚠ DANGER**

Always block the tires and the machine tongue whenever the Bandit Log Splitter is unhooked for operation.

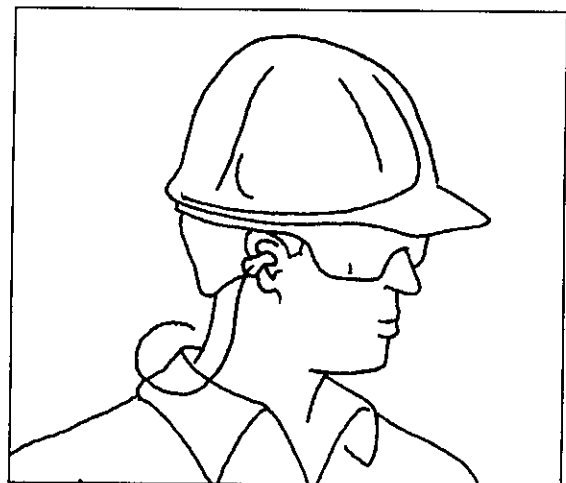
Torn or loose clothing is more likely to get caught in moving machinery parts or tree branches. Keep such items as long hair, shirt sleeves, and shirt tails properly contained. Avoid wearing necklaces, rings, watches, and especially neckties while operating this machinery. Make sure the machine is in excellent condition, and all the guards are in place, tight and secure.

Keep children, bystanders and animals clear of working area. Never operate equipment that is in need of repair or adjustment.

Put on all safety equipment examples: hard hat, safety glasses, gloves, ear protection, etc. You should always keep a fully charged fire extinguisher with you while operating or servicing the machine.

### **⚠ WARNING**

Operators **must** at all times be located within easy reach of feed control and shut-off devices when the unit is running.

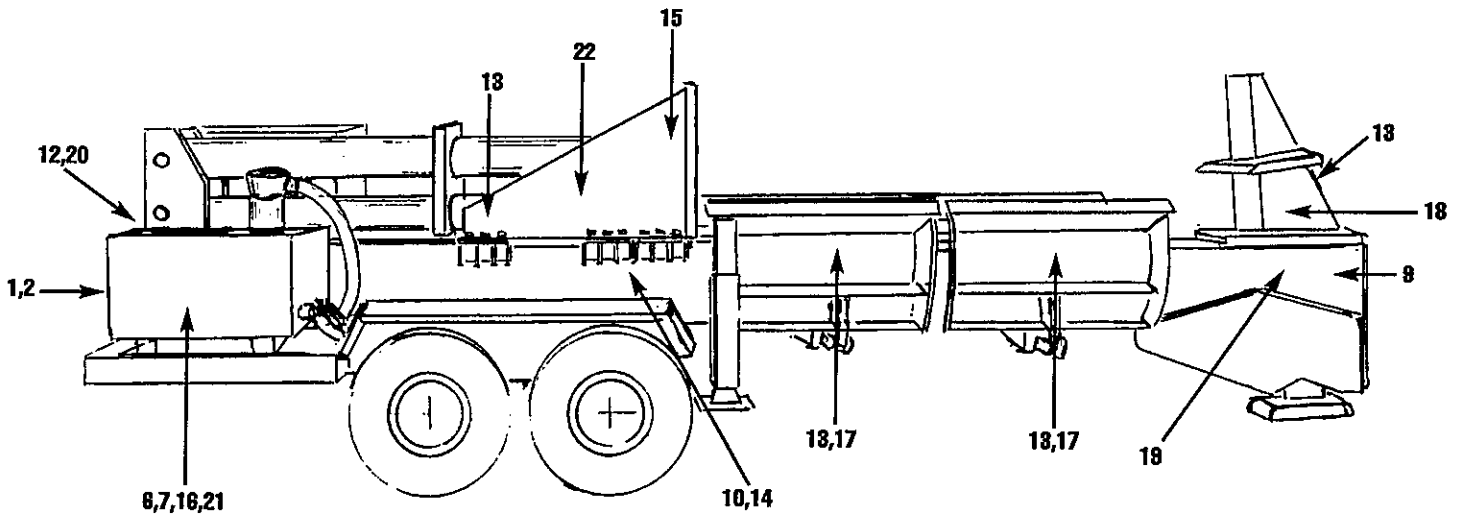
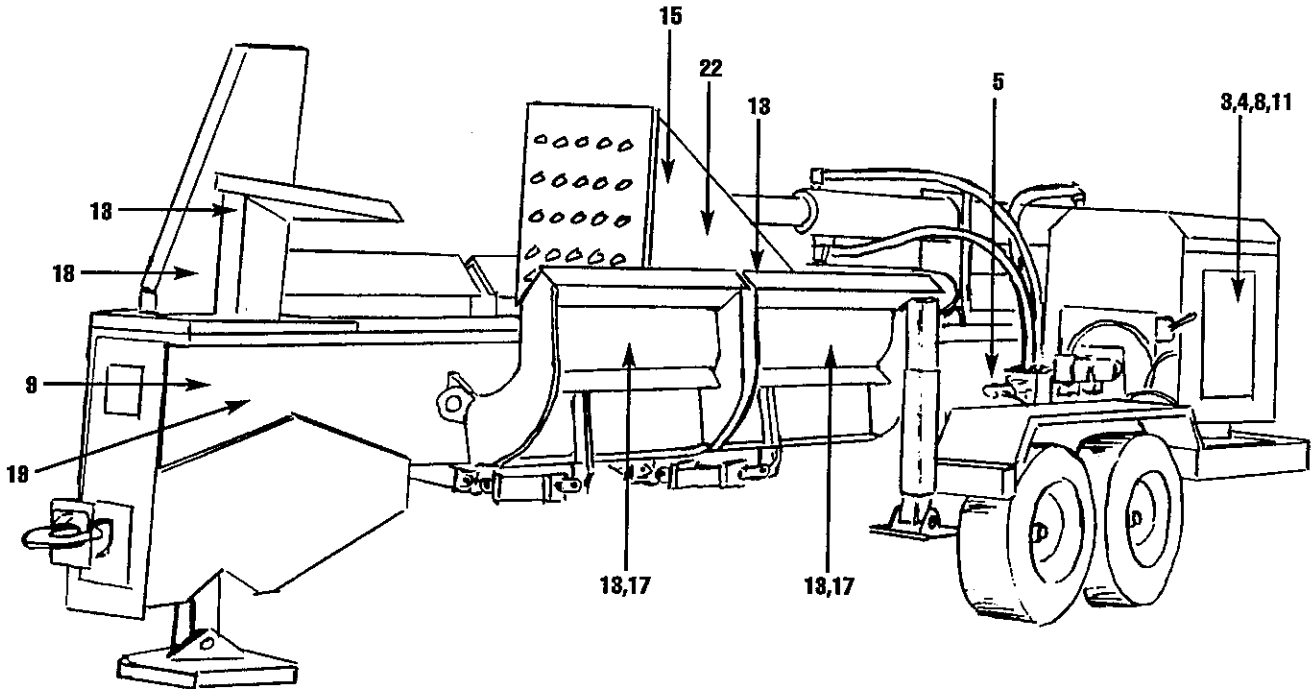


## **Bandit**

# SAFETY DECALS

### DECAL LOCATIONS - LOG BUSTER

ALTHOUGH LOCATIONS MAY VARY, ALL DECALS MUST BE ON MACHINE DURING OPERATION  
IF ANY DECALS BECOME DAMAGED, REPLACE IMMEDIATELY



## DECAL LOCATIONS - LOG BUSTER

Modifications and/or additions of decals to this list will happen.  
Consult chipper dealer or manufacturer for most current decal package.

LOCATION	KEY	NUMBER	DESCRIPTION
1.		OOB-112	Performance First Inc...
2.		OOB-130	Tree Bandit
3.		OOB-213	Do Not Attempt To Operate..
4.		OOB-243	Notice Owners Responsibility...
5.	Optional	OOB-256	Stabilizer Down↔Up
6.		OOB-278	Notice Hydraulic Oil Tank..
7.		OOB-2002L	Bandit Industries Inc...
8.		OOB-2003	Notice The Owner Is Responsible...
9.		OOB-2006	Notice Maximum Towing Speed...
10.		OOB-301	⚠Caution! This Machine Operates...
11.		OOB-311	Notice Important Information...
12.		OOB-318	Notice Important Information...
13.		OBR-400	⚠Danger! Keep Hands Clear...
14.		OBR-408	⚠Warning! Flammable Fluid Diesel...
15.		OBR-436	⚠Warning! Flying Objects...
16.		OBR-441	⚠Warning! Keep Lug Nuts...
17.		OBR-442	⚠Warning! Wear Eye Protection...
18.		OBR-465	⚠Danger! Do Not Ever Have...
19.		OBR-474	⚠Danger! Thrown Objects...
20.		OBR-480	⚠Warning! Never Use Jumper Cables..
21.		OBR-482	⚠Warning! Hydraulic Oil...
22.			Log Buster Vinyl

KEY: SOME DECALS ARE FOR OPTIONAL COMPONENTS

# SAFETY DECALS

Safety Decals located on your Bandit Log Splitter contain useful information to assist you in operating your equipment safely. Some of the decals on your machine and their location are shown in this section.

It is very important that all decals remain in place and in good condition on your machine. Please follow the care and instructions given below:

- 1) You should use soap and water to keep your decals clean. Never use mineral spirits or any other abrasive cleaners.
- 2) Replace immediately any missing or damaged decals. The location the decal is going to be applied to must be clean and dry, and at least 40° F (5°C) before applying decal.
- 3) When the need arises to replace a machine component with a decal attached, be sure and replace the decal.
- 4) Replacement decals are available, and can be purchased from the manufacturer or your Bandit Dealer.
- 5) Spanish, Portuguese and other foreign language decals are available.

## EXAMPLES:

**NOTICE**

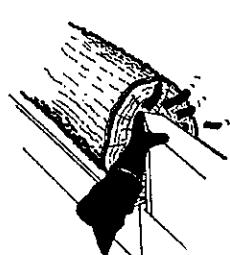
**THE OWNER IS RESPONSIBLE TO REPLACE ANY REMOVED OR DAMAGED DECALS.**

You may also purchase decals in another language. Mail the translated decals you require to:  
**PARTS DEPARTMENT**  
6750 MILLBROOK RD., REMUS, MI 49340.  
We will contact you with cost and availability of the translated decals.

**⚠ DANGER**

A) **DO NOT** ever have any portion of your body near log splitter while it is operating.

B) **DO NOT** operate with two people. One person inserts log and that same person steps away to actuate control valve.



**NOTICE**

**MAXIMUM TOWING SPEED 55 MPH**

**⚠ DANGER!**

**KEEP HANDS CLEAR** 



# START-UP PROCEDURES

# START-UP PROCEDURES

## DANGER

Do not let anyone operate or maintain this machine until they have thoroughly read this manual. You can purchase additional Bandit Log Splitter manuals for a nominal fee.

## WARNING

Consult your engine manual for proper break-in procedures. Various engines require somewhat different procedures, but basically the engines need to operate at lower R.P.M.s and loads for a specific time.

## WARNING

Failure to properly break-in your engine will result in poor bearing and piston ring surfaces.

## WARNING

The Bandit Log Splitter has only been run for a short time to test proper hydraulic pressures, possible leaks, etc. The fuel tank will be empty. Fuel is provided through a small auxiliary tank for testing. This immensely helps maintain safety in our manufacturing facility and while shipping.

### BEFORE STARTING ENGINE

- 1) Observe all safety procedures on decals and from manual.
- 2) Make sure you have on all of your safety equipment; hard hat, gloves, eye protection, ear protection, etc.
- 3) Check axle dust caps daily, replace per axle MFG. instructions.
- 4) Check the entire machine for any loose parts or components. Check for any loose nuts or bolts, torque, tighten or replace.
- 5) Check hydraulic pump and motor shaft for fit and tightness.
- 6) Check radiator, debris screen. Clean as necessary. Clean cooling fan, shroud on air cooled engines.
- 7) Check the fuel level, check the fuel lines, fuel tank, and fittings for fuel leaks, maintain 7/8 full.
- 8) Inspect all hoses, and hydraulic fittings for damage or leaks. Replace as necessary.
- 9) Check engine oil and coolant levels, make sure they are at the proper level for operation.
- 10) Check hydraulic oil level, this should always be 7/8 full. Remember to check DAILY to avoid excessive heat buildup.
- 11) Check the air cleaner or precleaner. Clean as necessary.
- 12) Make sure all guards are tight and securely in place.
- 13) Check around the machine for tools, cans, saws, etc.
- 14) Block the tires and tongue for stability before operations.
- 15) Remember to check EVERYTHING on the Checklist.

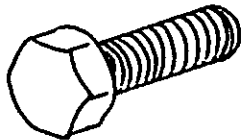
**Bandit**

# OPERATING PROCEDURES

## **⚠ DANGER!**

It is very important after you have operated the new machine for approximately an hour, shut down the machine and recheck all nuts and bolts. It is normal for bolts to loosen once on a new piece of machinery. If you tighten them now, there's a good possibility they won't

loosen again. In cold weather situations let your hydraulic system idle for approximately 15 minutes to allow the system to warm up to operating temperature.



Never refuel while the Log Splitter is running. Never refuel in the shop or building. Always refuel in a well ventilated area, away from sparks or open flames. Extinguish all smoking materials. Wipe up all spilled fuel before restarting the engine.

This equipment is intended for use by personnel who are experienced with similar equipment. Always operate safely. It is also recommended that someone else is present while splitting or servicing in case an injury occurs. Never operate any machine while under the influence of drugs or alcohol.

The Log Buster can be operated using either one of two operating modes:

1. By radio remote control
2. Fifty foot tether control

In addition, if a cab is fitted the splitter can also be controlled from this point. All three control functions plug into the same Amphenol multi-pin socket.

In addition to the ram in and out controls the splitter is equipped with four positioning cradles for positioning the log in the right location ready for splitting. By pressing one of the cradle function buttons the cradle will raise up. When the button is released the cradle will fall back.

An engine kill button is also mounted on the control box. This can be used to kill the engine and will override the ignition switch.

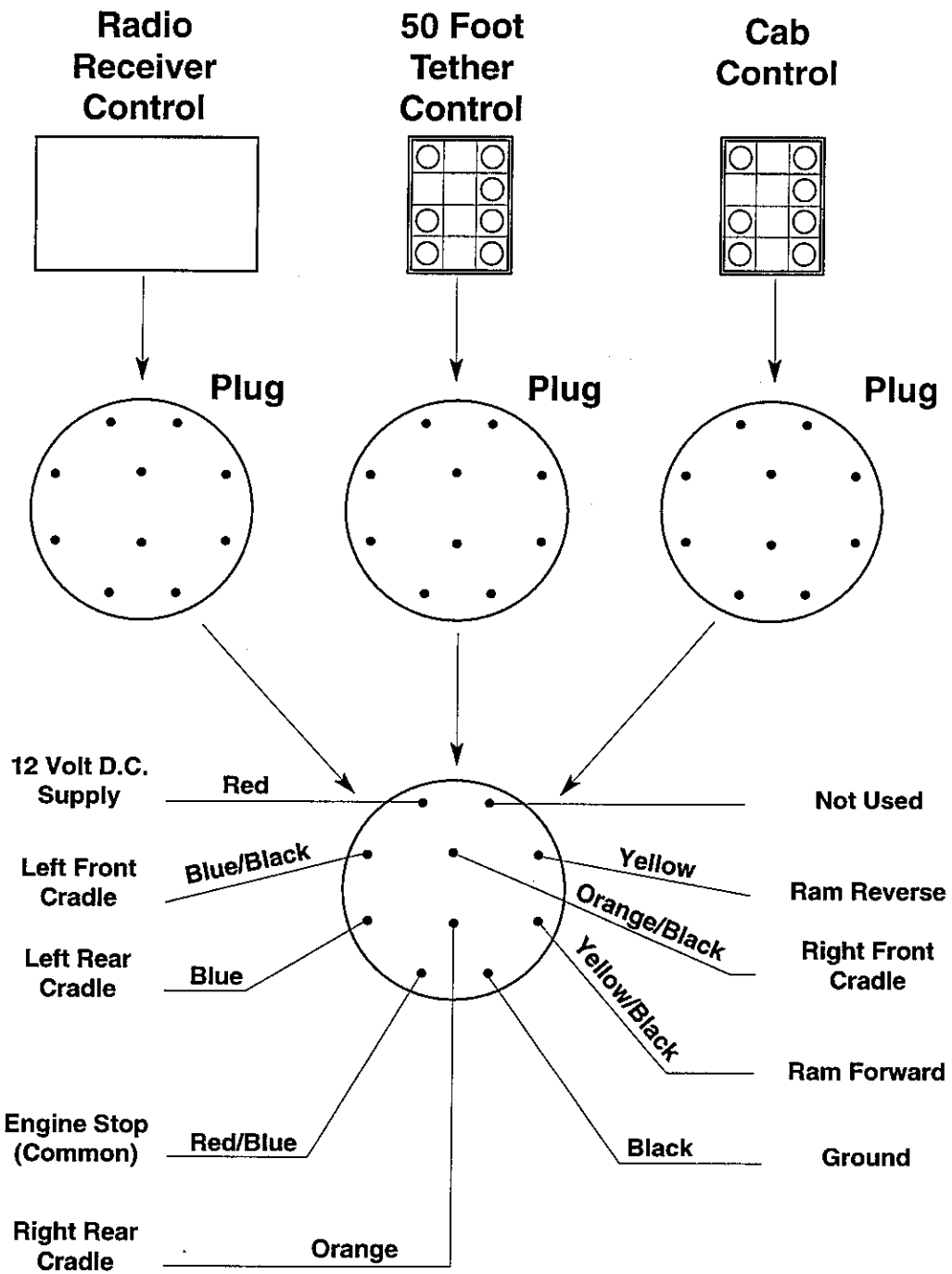
<b>ENG KILL</b>		<b>RAM EXT</b>
		<b>RAM RET</b>
<b>CR-1 LEFT</b>		<b>CR-1 RIGHT</b>
<b>CR-2 LEFT</b>		<b>CR-2 RIGHT</b>

## **⚠ DANGER!**

Before operating the machine make sure that no-one is within fifty feet of the Log Splitter. Never operate the Log Splitter while standing on the machine or close to the work area.

## **⚠ DANGER!**

Never stand next to the cradles or in the work area while positioning the log. Always wear a hard hat, safety glasses, gloves, ear protection, etc.



**An - 9057 - 10  
Amphenol Socket  
Connection**

**Bandit**

# MAINTENANCE

## MAINTENANCE CHECK SHEET

### DAILY

	O.K.	Repaired
1) Check entire machine for loose bolts, nuts, components.	<input type="checkbox"/>	<input type="checkbox"/>
2) Check and secure all guards.	<input type="checkbox"/>	<input type="checkbox"/>
3) Check engine oil, coolant levels. Follow ENGINE MFG. manual specs.	<input type="checkbox"/>	<input type="checkbox"/>
4) Check radiator, debris screen. Clean cooling fan, shroud.	<input type="checkbox"/>	<input type="checkbox"/>
5) Check air cleaner, pre cleaner.	<input type="checkbox"/>	<input type="checkbox"/>
6) Check hydraulic oil level, hoses, fittings.	<input type="checkbox"/>	<input type="checkbox"/>
7) Check for oil or fuel leaks.	<input type="checkbox"/>	<input type="checkbox"/>
8) Check the safety decals, engine gauges, replace if damaged.	<input type="checkbox"/>	<input type="checkbox"/>
9) Check cutting blade assembly, torque correctly.	<input type="checkbox"/>	<input type="checkbox"/>
10) Check for correct engine speed.	<input type="checkbox"/>	<input type="checkbox"/>
11) Replace axle dust caps per axle MFG. instructions.	<input type="checkbox"/>	<input type="checkbox"/>

### WEEKLY

	O.K.	Repaired
1) Check alternator and fan belts on engine.	<input type="checkbox"/>	<input type="checkbox"/>
2) Check and retighten fuel, and hydraulic tank mount bolts.	<input type="checkbox"/>	<input type="checkbox"/>
3) Check, retighten wheel lug nuts.	<input type="checkbox"/>	<input type="checkbox"/>

### MONTHLY

	O.K.	Repaired
1) Check all hydraulic pressures, reset to correct P.S.I.	<input type="checkbox"/>	<input type="checkbox"/>
2) Check towing hitch for wear, keep pintle ring greased.	<input type="checkbox"/>	<input type="checkbox"/>
3) Replace hydraulic oil filter. Use AE-10 filter.	<input type="checkbox"/>	<input type="checkbox"/>
4) Check and fill tires to rated pressure.	<input type="checkbox"/>	<input type="checkbox"/>

## Bandit

# MAINTENANCE PROCEDURES

ITEMS TO BE SERVICED	CHECK			PROCEDURE <small>(Always Replace If Needed)</small>
	DAY	WEEK	MONTH	
Check Entire Machine	x			For any loose parts or components
All Other Nuts & Bolts	x			Torque, tighten, replace if needed
Check all Guards	x			All in place, tightened and secure
Engine Oil, Coolant	x			Increase to full, check for leaks, repair
Radiator Coolant System	x			Follow ENGINE MFG. manual specs.
Radiator, Debris Screen (If equipped)	x			Clean, power wash as necessary
Clean Cooling Fan, Shroud	x			On air cooled engines
Air Cleaner, Pre-Cleaner	x			Clean or replace element
Hydraulic Oil	x			Minimum 7/8 Full. Replace once a year.
Hydraulic Oil Leaks, Hoses, Fittings	x			Inspect, tighten, repair or replace
Fuel Lines and Tank	x			Check for leaks, repair or replace
Safety Decals, Engine Gauges	x			Replace immediately if damaged
Check Blade, Bolts, and Nuts	x			SEE BOLT TORQUE CHART
Correct Engine Speed	x			Per Engine Manufacturer's Recommendation
Axle Dust Caps	x			Replace Per Axle MFG. Instructions
Alternator, Fan Belts		x		Check tension, readjust
Tank Mount Bolts		x		Check fuel, hydraulic bolts, retighten
Wheel Lug Nuts		x		Check and tighten, or replace
Hydraulic Pressures			x	Check all, reset relief valve to 2500 P.S.I.
Towing Hitch			x	Check for wear, keep pintle ring greased
Hydraulic Oil Filter (AE-IO)			x	Replace after 400 hours of service
Tire Air Pressure			x	Fill to tire rated capacity
Wheel Bearings	--	--	--	Follow Axle MFG. Instructions
Machine Lubrication	--	--	--	SEE LUBRICATION CHART
Engine Lubrication	--	--	--	SEE ENGINE MANUFACTURER'S MANUAL

# MAINTENANCE SECTION

The Bandit Log Splitter is a very simple machine to maintain. If you will follow a regular scheduled preventative maintenance program you should have years of trouble free operation.

## DANGER

Do not attempt any maintenance without removing the engine key, put it in your pocket, and disconnect the coil wire.

## DAILY MAINTENANCE

**1) Check entire machine for loose bolts, nuts, parts, or components:**

Look for, find and tighten anything that has loosened up.

**2) Check to make sure all guards are in place and secured.**

**3) Check engine oil and coolant levels:**

Follow the engine manufacturer manual recommendations for fluid levels. You **MUST** follow specific ENGINE MFG. manual recommendations for radiator coolant, additives, ETC.

**4) Check radiator, debris screen:** Check and thoroughly clean radiator and debris screen (if equipped). Clean cooling fan, shroud on air cooled engines.

**5) Check Air cleaner or pre-cleaner, clean or replace as necessary:** Clean or replace element following engine manual recommendations.

**6) Check hydraulic oil level:**

In the hydraulic oil reservoir tank the level should always remain at 7/8 full.

**7) Check for any oil, or fuel fitting leaks:**

Inspect for any oil, fuel, hydraulic oil, or engine coolant leaks. Check all hoses, fittings, lines, tanks, repair or replace.

**8) Check the safety decals and engine gauges, replace if missing or damaged. Check the engine manufacturer's manual to make sure your Log Splitter engine is running properly.**

**9) Check cutting blade assembly:** Inspect cutting blade, torque bolts, and nuts properly.

**10) Check for correct engine speed:** Adjust correctly per Engine Manufacturer's Recommendation.

**11) Replace axle dust caps per axle MFG. instructions.**

# Bandit



**WEEKLY MAINTENANCE**

- 1) **Check alternator and fan belts on engine (as applicable).**  
Adjust and maintain per the engine manufacturer's manual.
- 2) **Check and retighten fuel tank mount bolts:**  
Check the hydraulic tank mount bolts also at this time.
- 3) **Check wheel lug nuts:**  
Keep lug nuts tight, retorque, replace if needed.

**LE-10  
MICRON  
FILTER**

**MONTHLY MAINTENANCE**

- 1) **Check all hydraulic pressures:**  
Reset all to correct P.S.I. Reset hydraulic relief Valve to 2500 P.S.I.
- 2) **Check towing hitch:**  
Check for excessive damage or wear. Replace if needed. Keep pintle ring greased to reduce wear.
- 3) **Hydraulic Oil Filter:**  
Must be replaced after **FIRST 10 HOURS OF OPERATION**, USE **LE-10 MICRON FILTER**, then every 400 hours afterwards. Clean hydraulic suction screen quarterly or every 400 hours.
- 4) **Tire Air Pressure:**  
Fill tires to rated tire capacity.






**BOLT TORQUE CHART**

(THESE TORQUES BASED ON DRY, CLEAN THREADS)  
ALL BOLT TORQUES IN FT/LBS,

DESCRIPTION	BOLT SIZE	PLAIN	PLATED
Blade Bolts	1" - 8 TPI	909	682
Saddle Bearing Bolts	7/8"-9 TPI	606	454
Pressure Plate Bolts	3/4" - 10 TPI	376	282
Engine Hold Down Bolts	1/2" - 13 TPI	106	80
Wheel Lug Nuts	9/16" - 12 TPI	153	115
	5/8" - 11 TPI	212	159

Before tightening any bolt be sure you have the correct size bolt for the correct amount of torque. All Bolts Must Be Premium quality Grade 8.

# TIRE WEAR DIAGNOSTIC CHART

Wear Pattern		Cause	Action
	<b>Center Wear</b>	Over Inflation	Adjust pressure to particular load per tire catalog
	<b>Edge Wear</b>	Under Inflation	Adjust pressure to particular load per tire catalog
	<b>Side Wear</b>	Not hauling trailer level Bent Axles Wide Tires Wheel Bearings	Must be hauled parallel to ground Replace as needed Characteristic of wide flotation tires Adjust or replace
	<b>Cupping</b>	Out-of-balance Wheel Bearings	Check bearing adjustment and balance tires Adjust or replace
	<b>Flat Spots</b>	Wheel lockup & tire skidding	Avoid sudden stops when possible and adjust brakes.

The wear pattern and tread life of tires involves many variables that the user has control of, but **DOES NOT** fall under faulty manufacture or design.

The following is a list of some causes supplied by tire suppliers and axle manufacturers:

- Misalignment - from rough roads, pot holes, excessive speeds and hitting curbs.
- Tire Width - the wider the tire for flotation, the more uneven the tire wear.
- Tire Air Pressure - too much or too little, for the load.
- Vehicle Hitch Height - if trailer isn't level with ground, axle camber is misaligned.
- Maintenance - wheel bearing lubrication and adjustment. Follow axle mfg. instructions.
- Brakes - uneven or mis-adjusted brakes cause irregular brake activation.

## Bandit

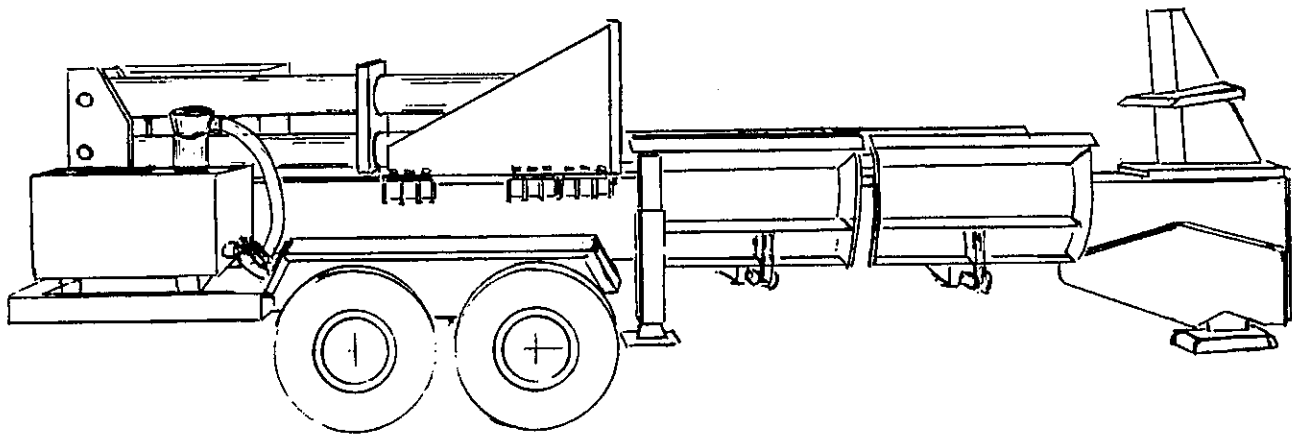
# HYDRAULIC SECTION

## THE BANDIT LOG SPLITTER HYDRAULIC SYSTEM

The Bandit Log Splitter is equipped with a very efficient, simple hydraulic system. Each component is capable of withstanding 2500 PSI and still operate for a very long time.

If you follow the simple rules mentioned below, the hydraulic components will last for years:

- ★ Do not operate the machine if the hydraulic oil level is low. This will cause the pump to cavitate and over heat. Keep min. 7/8 full tank.
- ★ Do not increase the Log Splitter relief valve setting beyond 2500 PSI. This will cause damage to hydraulic components.
- ★ Keep your oil clean. Dirty oil will cause excessive wear and loss of feed wheel power. Replace spin on filter per maintenance chart.
- ★ Replace the hydraulic oil suction screen & oil filter with each 400 hours of operation or 3 months. See page 26 for hydraulic oil requirements.
- ★ Replace your hydraulic oil once yearly. This is also a very good time to flush and clean the tank.
- ★ Maintain hydraulic pressure at 2500 P.S.I.



## HYDRAULIC COMPONENTS

**Suction Strainers** - These strainers stop contaminants from reaching the hydraulic pumps. The suction strainers should be replaced every 400 hours or 3 months.

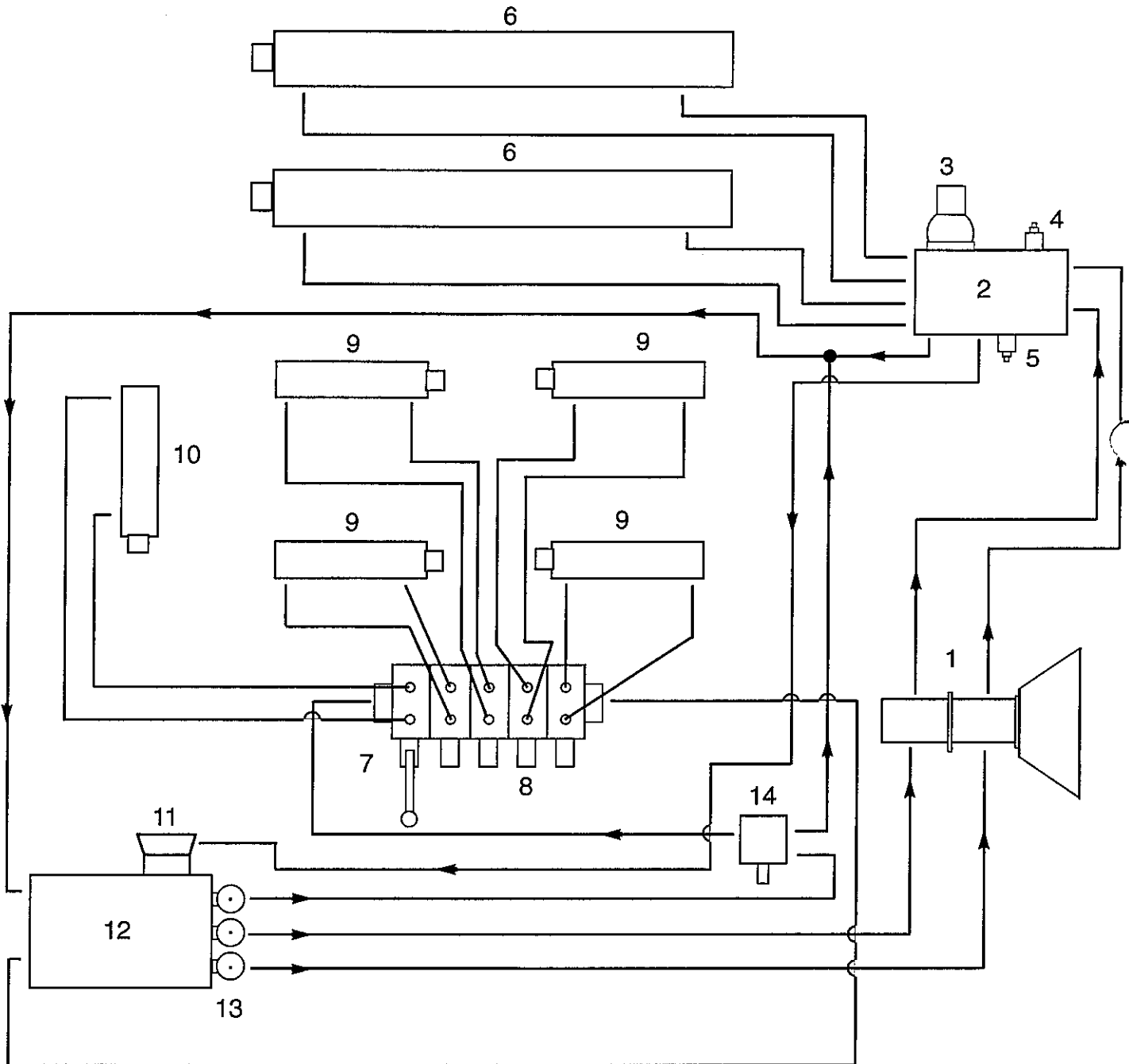
**Hydraulic Tank** - This tank must be kept clean and filled minimum 7/8 full. Clean tank yearly.

**Filter** - This cartridge filter must be replaced per maintenance schedule.

**Filter Mount** - The filter is inside the filter cap.

**Sight Gauge Filler Cap.**

# HYDRAULIC SCHEMATIC 2500 PSI OPERATING SYSTEM



**HYDRAULIC COMPONENTS**

<b>LOCATION</b>	<b>PART NUMBER</b>	<b>DESCRIPTION</b>
1a.	900-3911-21	Front Splitter Pump w/21 gal. ring
1b.	900-3911-22	Rear Splitter Pump w/17 gal. ring
2.	900-3912-56	Manifold Block Valve Kit
3.	900-3912-58	Control Valve
4.	900-3912-64	Relief Valve
5.	900-3912-57	Unloading Valve
6.	900-3912-91	7" Bore x 106" Stroke Cylinders
7.	900-3912-92	MV3-10 Stabilizer Control Valve
8.	900-3912-93	MV5-10 Cradle Control Valves
9.	900-3912-94	Cradle Cylinders
10.	900-3912-47	Stabilizer Cylinder
11.	900-3912-49	Filter Element
12.	970-0504-01	Hydraulic Tank
13a.	900-3912-51	2" Strainers
13b.	900-3912-59	1" Strainer
14.	900-3912-44	Cradle Pump

# LUBRICATION

**ENGINE** ..... Follow original equipment manufacturers requirements for both changing oils and filters.

**HYDRAULIC RESERVOIR TANK**..... Completely change oil and flush tank annually.

Change hydraulic oil suction screen every 400 hours or 3 months.

Change hydraulic oil filter **AFTER FIRST 10 HRS. OF OPERATION**. Then change hydraulic oil filter every 400 hrs. or 3 months thereafter. Maintain hydraulic oil level 7/8 full. See hydraulic oil requirements below.

Check hydraulic oil level in tank daily.

**PINTLE EYE RING** ..... Keep greased to reduce wear and extend the normal life of your Pintle Eye Ring.

## HYDRAULIC OIL REQUIREMENTS

This machine is equipped with 10W-30 MOTOR OIL with a designation of SC, SA, or SE. Use only MOTOR OILS with this designation. 10W-30 MOTOR OIL fits a range of operating temperatures: 0° Fahrenheit to 210° Fahrenheit.

Cold temperatures require the motor oil to be properly warmed up at a low RPM. This is especially true with live power hydraulic systems that operate the pump directly off the engine. Temperatures below 0° Fahrenheit require the use of 5W-20 MOTOR OIL.

**! WARNING!**

### HYDRAULIC OIL REQUIREMENTS

- 1) Replace oil filter 400 hours maximum/yearly.
- 2) Keep oil level in tank at 3/4 to 7/8 full.
- 3) Replace oil immediately if it is contaminated or looks "milky".
- 4) Change suction screen and hydraulic oil yearly.

This machine is equipped with 10W-30 MOTOR OIL with a designation of SC, SA, or SE. Use only MOTOR OILS with this designation. 10W-30 MOTOR OIL fits a range of operating temperatures: 0° Fahrenheit to 210° Fahrenheit. Cold temperatures require the motor oil to be properly warmed up at a low RPM. This is especially true with live power hydraulic systems that operate the pump directly off the engine. Temperatures below 0° Fahrenheit require the use of 5W-20 MOTOR OIL.

**! WARNING!**



**DO NOT GO NEAR LEAKS!**

• High pressure oil easily punctures skin causing serious injury, gangrene or death.  
 • If injured, seek emergency medical help. Immediate surgery is required to remove oil.  
 • Do not use finger or skin to check for leaks.  
 • Lower load or relieve hydraulic pressure before loosening fittings.

### **! WARNING**

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If injured, seek emergency medical help. Immediate surgery is required to remove oil. **DO NOT** use fingers or skin to check for leaks. Lower load or relieve hydraulic pressure before loosening fittings.

# Bandit

# **REPLACEMENT PARTS SECTION**

Depending on what replacement parts you are ordering  
we will need the following information:

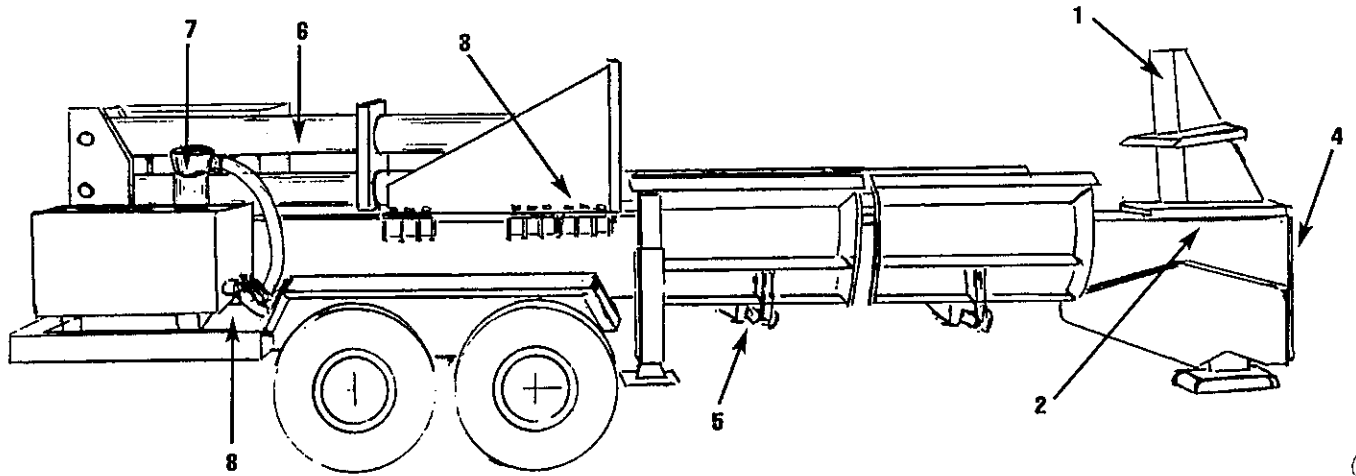
**LOG SPLITTER COMPONENTS**  
**COMPONENTS**

Serial Number of Splitter  
Component Part#

**ENGINE**

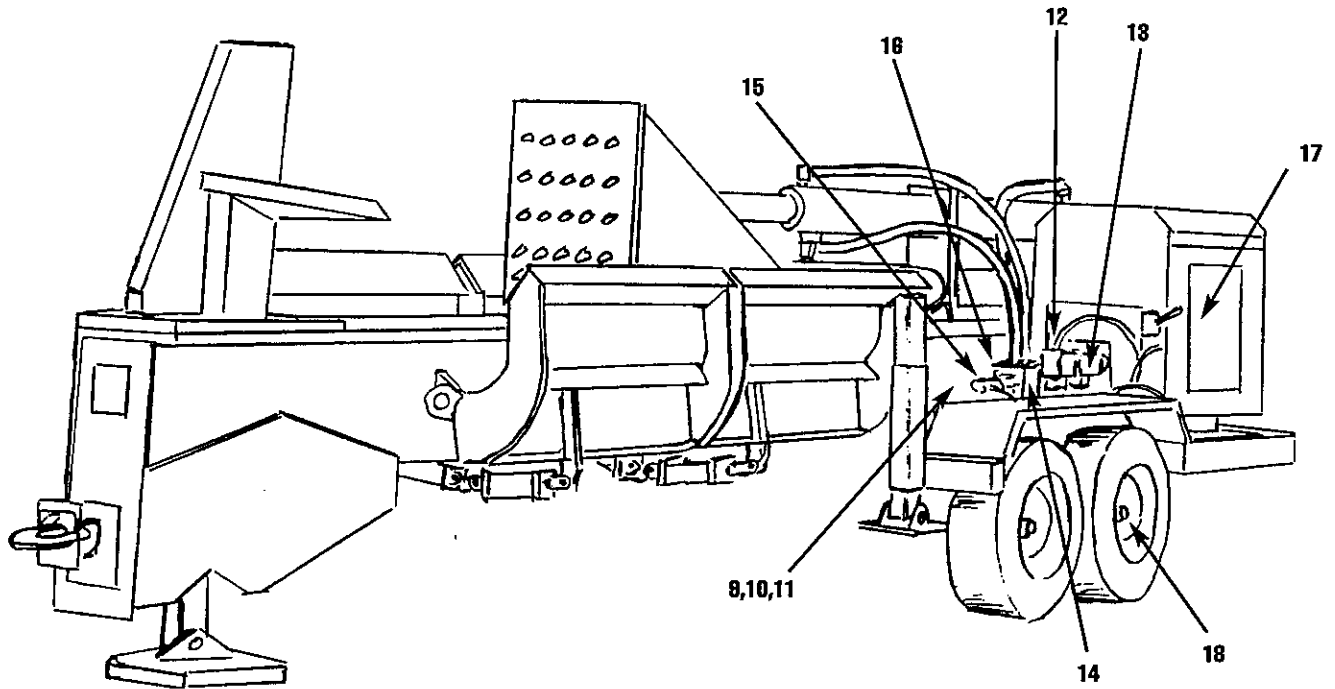
Engine Size  
Engine Serial Number  
Engine Spec Number

Performance First and Bandit Industries reserve the right to make changes in models, sizes, designs, installations and applications on any part without notification.



LOCATION	DESCRIPTION	PART NUMBER	QTY
1a.	Vertical Blade Assembly	970-0500-06	1
1b.	Cross Blade Assembly	970-0500-12	1
1c.	Stump Blade Assembly	970-0500-15	1
2a.	Blade Nuts	900-4901-45	18
2b.	Blade Bolts	900-4904-86	18
3.	Slide Bearings	900-1905-96	6
4.	Stabilizer Cylinder	900-3912-47	1
5.	Cradle Cylinders	900-3912-94	4
6.	Main Cylinders	900-3912-91	2
7.	Return Line Filter Element	900-3912-49	1
8a.	Tank Strainers	900-3912-51	2
8b.	Tank Strainer	900-3912-59	1





LOCATION	DESCRIPTION	PART NUMBER	QTY
9.	5 Bank Control Valve	900-3912-50	1
10.	Stabilizer Control Valve	900-3912-92	1
11.	Cradle Control Valves	900-3912-93	4
12.	Rear Pump	900-3911-22	1
13.	Front Pump	900-3911-21	1
14.	Unloading Valve	900-3912-57	1
15.	Relief Valve	900-3912-64	1
16.	Main Control Valve	900-3912-58	1
17.	Cradle Pump	900-3912-44	1
18a.	Axles	900-5902-05	2
18b.	Tires with Heavy Duty Rims	900-5904-20	4

