SPLIT-FIRE®

OWNERS MANUAL

3000, 4000, & 6000 Series
Excavator Log Splitter

Thank You for Purchasing a Split-fire Log Splitter!

We appreciate having you as our customer and wish you many years of safe and satisfactory operation with your machine.

SPLIT-FIRE SALES INC.

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Norwich, ON N0J 1P0
Canada

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1. Introduction

1.1 How to use your Owner's Manual

This owner's manual is a very important part of your new machine and should remain a permanent part of it. If the machine is sold, the owner's manual must go with it.

By reading the operator's manual you will help yourself and others avoid unnecessary personal injury and/or damage to the machine and will also allow you to perform maintenance to keep your machine operating properly. The information recorded in this manual will help you use this machine safely and effectively. Once you know how to operate the machine correctly and safely, you can train other excavator operators to operate the machine as well.

The machine that is used in this manual for illustration may differ slightly from your model. It will be similar enough to help you understand our instructions.

Throughout this manual the terms "Left Hand" and "Right Hand" will be used. These sides are determined when standing behind the Hydraulic Hoses and facing the knife or far stop of the machine. Also "Back" and "Front" will be used. On an excavator log splitter, the "Back" is referred to the hydraulic hose end and the side with the stop is the "Front".

Your machine has been tested and inspected to pass quality control at Split-fire's Manufacturing facility to ensure good performance prior to leaving the factory.

While reading the manual, important messages are used to bring the operator's attention where there may be safety concerns relating to machine damage and important servicing information. Please read all these messages to avoid personal injury and machine damage. The three main messages will start with:

WARNING!!!: which suggests, a strong chance of personal injury or death to the operator or bystanders if procedures are ignored.

IMPORTANT: which suggests, a strong chance of potential damage to the machine may occur if procedures are ignored.

NOTE: suggests to the operator, General information given to help the operator to operate or service the machine.

1.2 Product Identification

If you ever need to contact your dealer or the manufacturer for parts or questions regarding the operation or servicing of the machine, it is important to have the model number as well as all the necessary identification numbers. Using the sample pictures on this page you can find the necessary numbers to complete the spaces below.

Date of Purchase:

_____

Dealer Name:

_____

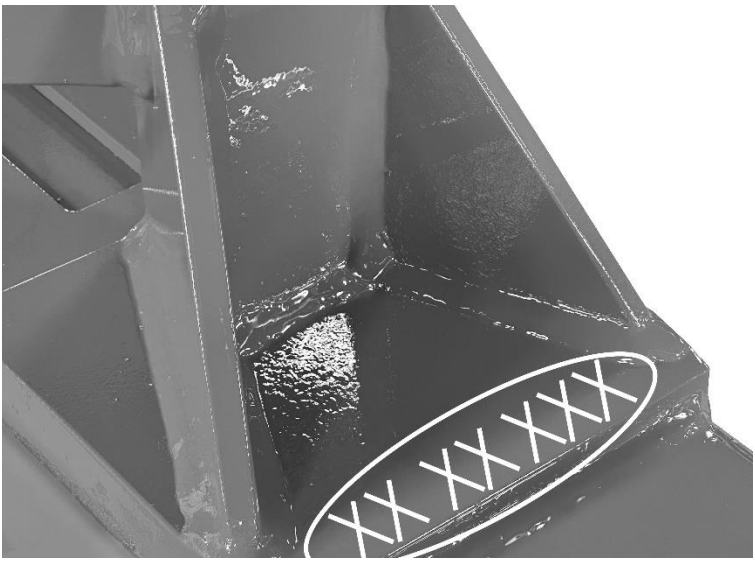
Dealer Phone Number:

_____

Frame Serial Number: (XX XX XXX)

_____

Frame Serial Number



1.3 Warranty

Split-Fire Sales Inc. guarantees the original purchaser of any new Split-Fire machine, that the same is free of defects in workmanship or materials that may cause performance failure, subject to the condition's hereafter.

Split-fire must be contacted before the problem on the machine has been fixed. Split-fire will diagnose the problem and authorize any warranty work that will be allowed. If Split-fire does not authorize or parts are not sent from Split-Fire, warranty will not be applicable.

This guarantee is limited to a period of one year from the date of purchase. Replacement of any defective part is free of charge FOB Split-Fire Sales Inc. If Split-Fire requires the parts to be returned to Split-Fire, Split-Fire will pay for return shipping.

This guarantee does not apply to engines or other parts that are manufactured and guaranteed by the manufacturer thereof, nor does this apply with respect to any part or product that:

1. has original parts removed or otherwise altered without specific authorization beforehand from Split-Fire Sales Inc.
2. has had placed upon or attached to it, any part or product not sold or approved by Split-Fire Sales Inc.
3. has been damaged or is not used in conformity with the applicable instruction for the machine.
4. has not been properly adjusted or maintained by the owner.
5. has been adjusted or altered to increase the performance of the machine.

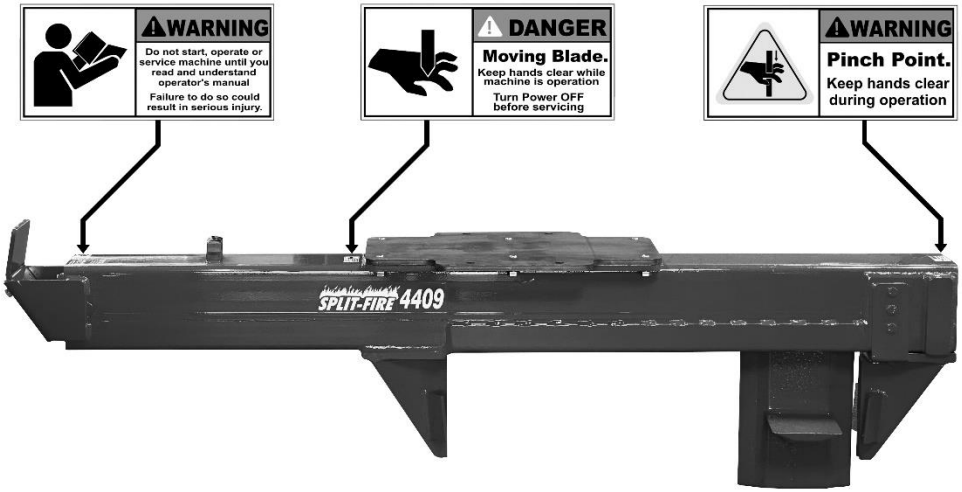
This guarantee is in lieu of and excludes all other guarantees and conditions of merchantability and fitness for a purpose. Acceptance of a Split-Fire Sales product constitutes an agreement that Split-fire Sales shall have no liability for any special or consequential damage.

2. Safety

2.1 Safety Labels

The machine safety labels shown in the section below are very important. They are placed in areas on the machine that draw the attention of the operator to potential safety hazards on the machine. If at any time the stickers are removed, or come off, contact your dealer or the manufacturer immediately for replacement decals.

The operator's manual explains the potential safety hazards in detail associated to each decal. Special attention should be kept for these recommendations. They are outlined for your safety.



2.2 Operation Safety

✓ Carefully read and understand all the instructions pertaining to the log splitter in the operator's manual before operating your new machine. Anyone who operates or services this machine must read the owner's manual first. If any doubt or question arises about the safe and/or correct method of performing anything in this manual, contact one of our representatives at our head-office.

✓ Avoid accidents by being alert and recognizing potential hazards. Not all possible circumstances can be anticipated in this manual. Keep your log splitter and work area safe for yourself and others. Proper care and safety is your responsibility.

✓ All operators must have the necessary training and skills to operate the machine properly and safely. Use the controls correctly and follow the safety signs and recommendations.

✘ Never allow untrained persons to operate or service the equipment.

✘ Never let persons under the age of 18 operate the log splitter.

✓ Always operate your excavator inside of its rated capabilities (ie.grade angle, lift capacity, etc.). Failure to do so greatly increseases the chances of personal injury or death.

✘ Never operate your excavator in poor conditions (Slippery mud or ice) or low visibilty. Doing so greatly increases the chances of injury or death to the operator or bystanders.

✓ The owner is responsible for accidents and injuries to themselves and/or other persons operating their machine. If others are permitted to use this machine it is the responsibility of the owner to train users.

✓ New users may operate this machine in a clear, unobstructed area under the supervision of an experienced operator, only after they have read and understand the owner's manual.

✓ Only allow responsible adults who are familiar with the instructions to operate this machine.

✓ Inspect your machine each time before use. Special attention should be taken that all guards are in place, damaged or missing parts are replaced, and that all the safety decals highlighted in the safety labels section are in place on the machine.

✓ Only one person may operate the machine at any time. More than one operator greatly increases the chance of personal injury or death.

✘ Never operate the log splitter or excavator with other people working or arranging logs within 50 feet of the excavator. Doing so greatly increases the chances of injury or death.

✘ Never leave machine unattended while running.

✘ Never operate machine when under the influence of alcohol or drugs.

✘ Do not alter; add accessories, or attachments to your log splitter without the approval of the manufacturer. Doing any of the above without the manufacturer's approval WILL VOID THE WARRANTY. If attachments have been added with the approval of the manufacturer, be sure to keep safety labels visible.

✓ Your machine is designed to split wood only! Stones, metal, brush, gravel, and other foreign objects will cause damage to the machine and increase the chance of personal injury or death.

✘ Never split wood across the grain. This may cause wood to explode out sideways and cause personal injury or death.

✓ Operate your machine in a smooth manner. Do Not jam the control handles back and forth in a uncontrolled motion. Always maintain control and operate the controls at an even steady pace.

2.3 Worksite Safety

✓ Keep area around the log splitter clear from tall grass, debris, tools, and wood chunks/bark at all times.

✓ Operate log splitter on level surface only.

✘ Do not operate your machine in enclosed areas. Your engine produces Carbon monoxide, which is extremely dangerous if used in enclosed area. (E.g. Garage, Workshop, Barn)

✘ Do not operate machine when distracted by others. Keep children and pets at least 25 feet away from the work area to protect them from possible injuries. Keep other distractions such as radio, television etc. away.

✓ Only use machine during daylight hours. Use of this machine without proper lighting can lead to personal injury or death.

✓ Protect yourself at all times while operating your machine. Safety glasses, Hand Protection, Steel-toed boots and Ear Protection must be worn at all times. Loose clothing is also not permitted around your machine.

✓ Keep hands and body parts clear of cutting blades and end stops at all times.

3. Operation

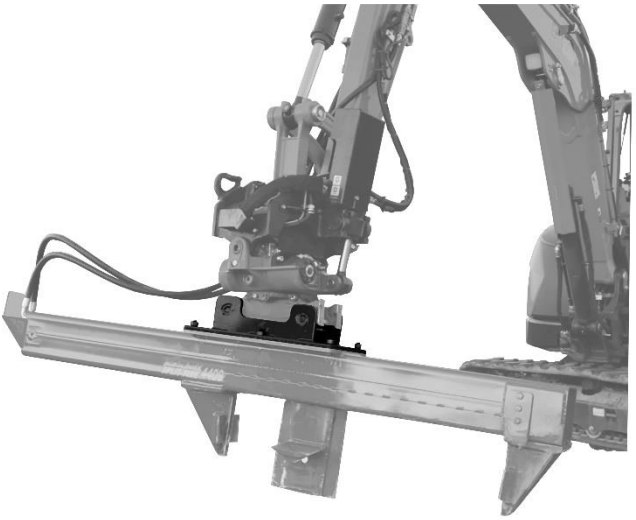
3.1 Before Operation and Excavator Connection

Before operating your machine, inspect it to ensure it is in good working order.

1. It is important that you have read and understood all safety recommendations before operating the Log Splitter. Read both the Log Splitter, and excavator owners manual before operating the machine.

2. Be sure that the knife is free of burrs and dents. This can occur when splitting logs with embedded steel material. If the knife has burrs or is dented, sand the knife to remove the dents and/or burrs.

3. Bring the excavator to the splitter, and connect the coupling as you would any other bucket or attachment.



4. Connect the hoses to the auxiliary connections on the arm using the correct couplings. Ensure the couplings are clean and free from corrosion. The 2 hoses should be inserted in the appropriate remotes as per the excavator owner's manual. If the owner's manual does not specify, contact a local dealer that represents your excavator's brand.

5. Check for any hydraulic leaks around the hydraulic connections, and cylinder. If there are any leaks replace the faulty parts or reseal leaky fittings.

6. Verify that the log splitter connection is completed properly and is secure.

7. Once the "before operation inspection" has been completed, the Log Splitter is ready for operation.

3.2 Operation

Once the “before operation checklist” has been completed, operation can begin:

1. Put on the appropriate PPE (Ear, Eye, Foot, Hand protection is important for safety).

2. Increase the RPM’s on the excavator to the desired speed. The higher the RPM’s the higher the hydraulic flow. If fast cycle time is not required, the excavator can be operated at its minimum recommended engine RPM. If more speed is required, the excavator can operate at full RPM’s which will decrease log splitter cycle time.

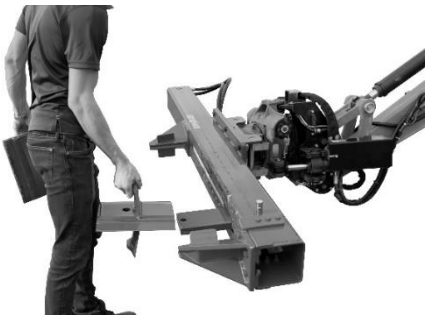
3. Fully cycle the log splitter all the way to each stop to ensure all air is flushed from the system. Failure to do so can cause the log splitter to jump forward in an unsafe manner.

4. Check the hydraulic fluid level of your excavator as the cylinder may be empty. Top up your excavator’s hydraulic fluid reservoir.

5. Fully cycle the log splitter 5 more times, and check the fluid again. Top up fluid if necessary.

6. The machine is now ready for operation. Run the log splitter smoothly. Do not jam or move the handle abruptly. Never cross-cut logs.

If your log splitter is a 4-way model, to switch knives it is easiest to curl the log splitter so that the knife is parallel to the ground as shown below.



3.3 After Operation and Excavator Disconnection

After splitting, steps can be completed to keep you machine in good operating status.

1. Once splitting is completed, the machine needs to be cleaned. Its important to clean inside the frame to remove wood debris. This can be most effectively done with air pressure via a blower, or a water pressure washer. A garden hose will also clean the frame. (Do NOT grease or oil slide pads after cleaning)

2. Give the log splitter a quick visual inspection. Check for loose fasteners, oil leaks, etc., and repair where needed.

3. Remove the hydraulic hoses from the auxiliaries on the excavator.

4. Disconnect the log splitter from the excavator as you would any other attachment, and place on the ground or on your splitter stand.

5. Be sure that lines are stored in such a way that the ends are not on the ground or out in the elements to keep them from contaminants and corrosion.

If any unnecessary noise occurs stop operation immediately and check for damage. If nothing can be seen, contact a dealer to book an inspection. If there are no dealers in your area, contact Split-Fire Sales Inc.

4. Maintenance

Maintaining your machine is important and will ensure that the machine lasts year after year offering smooth and reliable operation.

4.1 Log Splitter Maintenance

It is important to maintain your frame for smooth operation. Clean your machine, including inside the frame and the slider assembly. Debris may build up and cause damage during extreme neglect. It is best to clean frame with high pressure air or a pressure washing system.

Do NOT grease or oil the slide assembly. The UHMW slide pads are designed to operate without the addition of oil or grease. Oil and grease will attract dirt and debris particles and will drastically lower the life span of the slide pad.

Slide pad wear will occur over time and can be checked by measuring slider “play”. Slide wear should be checked yearly to ensure maximum life out of your log splitter. The slider can be checked by measuring the movement on the top of the knife. The “play” can be measured by completing the following steps.

1. Move the knife to the middle of the stroke. Equal distance between the front and back stop.
2. Utilize a rubber mallet hammer to hit the knife to the farthest left.
3. Use a flat edge (Ruler, Level, etc.) against the side of the frame in a vertical position to use as a measuring point.
4. Measure the distance between the flat edge and the top of the knife.
5. Utilize a rubber mallet hammer to hit the knife to the farthest right.
6. Place the flat edge in the same position and remeasure the distance between the flat edge and the knife.
7. If 3/8” “play” is observed, the slide pads need replacement

Contact your local dealer or Split-Fire Sales Inc. for slide pad kit pricing and availability.

5. Storage

5.1 How to Store your Log Splitter

When storing your log splitter special attention should be drawn to the areas listed below.

1-4 weeks storage

1. Clean your machine as listed in the “after operation” section.
2. Store Log Splitter in a dry, clean, and secure area.

   It is not uncommon for Split-fire Log Splitters to be stolen due to their value. Always store the machine in a secure area!!

5 + weeks storage

1. Clean your machine as listed in the “after operation” section.
2. Place the knife closest to the back of the machine. (This places the chrome cylinder rod in the cylinder and keeps it from getting dusty / rusty over long periods of time.
3. Spray a light oil mist on paint-less areas such as the knife, stops and splitting bed, and inside the frame. This will prevent surface rust. (This oil must be washed off with a biodegradable solvent when the machine in placed back into service)
4. Store Log Splitter in a dry, clean, and secure area. If the machine is stored outside, tightly wrap the machine in a tarp to reduce moisture, and UV ray exposure.

   It is not uncommon for Split-fire Log Splitters to be stolen due to their value. Always store the machine in a secure area!!

5.2 How to Assemble your Storage Stand

1) Complete the following instructions on a flat surface.
2) Turn center section so that the open side is facing down.

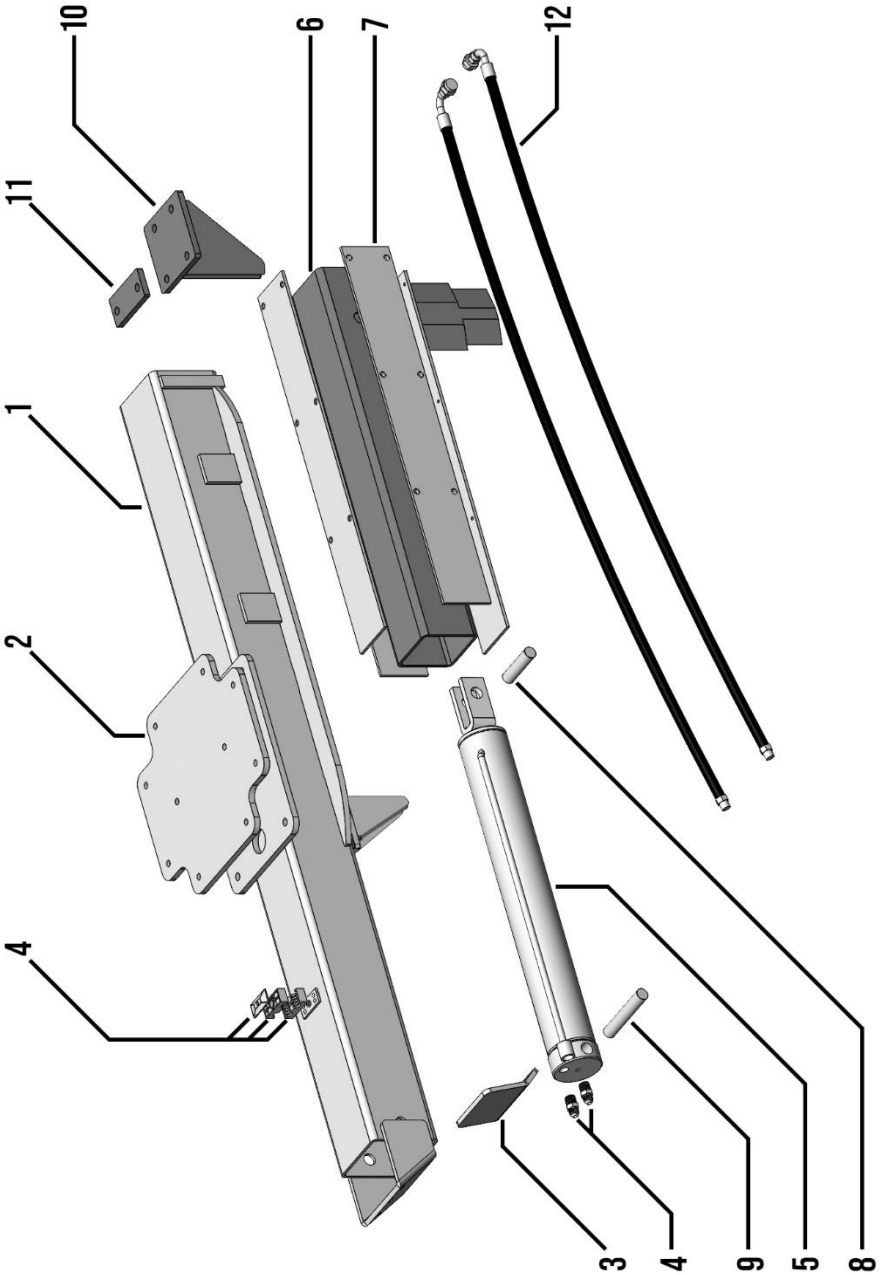
3) Install the first end plate with the feet facing the center of the stand and loosely thread the included ½”-13 X 7/8” Bolts with lock washers through the center section, into the end plate.

4) Install the second end plate the same way as the first.

5) Ensure that all four feet are touching the ground then tighten the six bolts using a 3/4” wrench or impact driver and ¾” Socket.

If your log splitter is equipped with a four-way knife, your stand will have come with a knife holder. This can be bolted to either side of the center section of the stand, using the included hardware. This can be used to hold knife that is not currently installed on the splitter.

6. Parts Breakdown

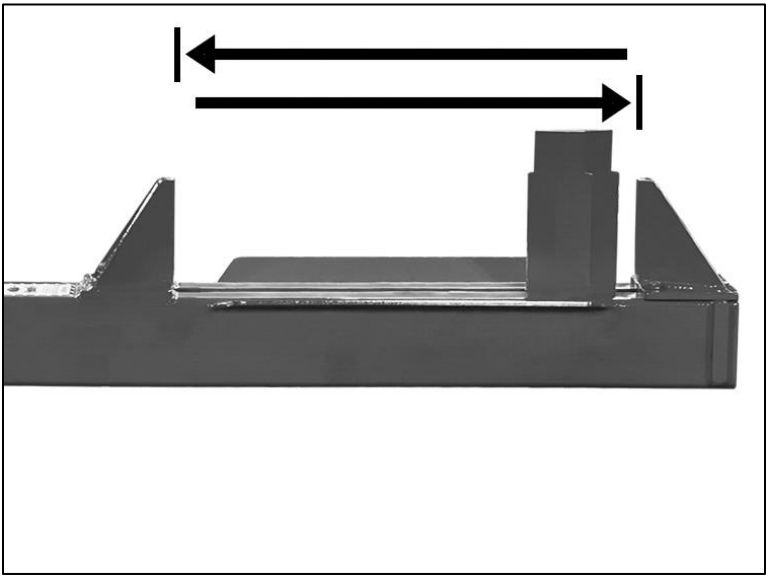


Item	Part #	Description
1	SLP-3224FUE	Frame Assembly 3209 24" stroke
2	SLP-309-EP	3000 Series Excavator Mount Plate
3	SLP-309-LG	3000 Series Excavator Line Guard
4	SLP-309 LM	3000 Series Excavator Line Mount
5	SLC-2024-C	3000 Series 24" Hydrualic Cylinder Assembly
6	SLP-2024-SA	3000 Series 24" Slider Assembly
7	SLP-2024-SPK	3000 Series 24" Slide Pad Kit (4 Pads W/ Screws)
8	SLP-SPCF-U2	3000 Series Slider Pin
9	SLP-CPB-U2	3000 Series Cylinder Back Pin
10	SLP-FS-U22	3000 Series Front Stop
11	SLP-FSP-U22	3000 Series Front Stop Plate
12	SLP-PMC-U	Manual Cannister
13	SLP-HPH-EX	All Series HP Hose 1/2" JICF x 1/2" NPTM
14	SLP-F1212NJ	Fitting - 1/2" NPTM x 1/2" JICM

Item	Part #	Description
1	SLP-4X24FUE	Frame Assembly 4X09 24 " Stroke X = 2 or 4 Way
2	SLP-409-EP	4000 Series Excavator Mount Plate
3	SLP-409-LG	4000 Series Excavator Line Guard
4	SLP-409-LM	4000 Series Excavator Line Mount
5	SLC-2024-C	4000 Series 24" Hydrualic Cylinder Assembly
6	SLP-2024-SA	4000 Series 24" Slider Assembly
7	SLP-2024-SPK	4000 Series 24" Slide Pad Kit (4 Pads W/ Screws)
8	SLP-SPCF-U2	4000 Series Slider Pin
9	SLP-CPB-U2	4000 Series Cylinder Back Pin
10	SLP-FS-U22	4000 Series Front Stop
11	SLP-FSP-U22	4000 Series Front Stop Plate
12	SLP-PMC-U	Manual Cannister
13	SLP-HPH-EX	All Series HP Hose 1/2" JICF x 1/2" NPTM
14	SLP-F1258NJ	Fitting - 1/2" NPTM x 5/8" JICM

7. Troubleshooting

If you have connected your log splitter, ensure you fully retract and extend the cylinder/knife. This ensures all air is removed from the hydraulic circuit. If you do not fully retract/extend the cylinder/knife and the motion seems to be stopping / jumping / jerking, it is indicative of air remaining in the system. Split-fire always ships your log splitter with no oil to save from mixing oils in your Excavator's hydraulic tank. Actuate the knife fully to each stop, once this has been done your log splitter will cycle smoothly. If the issue persists, call Split-Fire directly. Be sure to check your Excavator's hydraulic fluid level before operating.



8. Manual Checklist

1. Each person that operates this Split-fire log splitter must read and understand this checklist and the rest of the owner's manual before operation.

2. Keep hands at least 6 inches away from the stops and the knife at all times.

3. Always wear ear, eye, hand, and foot protection when operating the log splitter. Never wear loose clothing.

4. Keep the working area around the log splitter organized and free of equipment, tools, wood, and debris. Not doing so could result in injury or death.

5. Take frequent breaks when using the log splitter. Stress and fatigue can result in injury and/or death. Be awake and alert at all times.

I have read and fully understand all of the above.
Customer/Operator Signature: _____
Date: _____ / _____ / 20_____