

CHAMPION

POWER EQUIPMENT™

OWNER'S MANUAL AND OPERATING INSTRUCTIONS



15 Ton LOG SPLITTER



MODEL NUMBER

91520

SAVE THESE INSTRUCTIONS
Important Safety Instructions
are included in this manual.

MADE IN CHINA
REV 91520-20120622

10006 Santa Fe Springs Road
Santa Fe Springs CA 90670
USA / 1-877-338-0999
www.championpowerequipment.com

Have questions or need assistance?

Do not return this product to the store!

WE ARE HERE TO HELP!

Visit our website:

www.championpowerequipment.com

for more info:

- Product Info & Updates
- Tech Bulletins
- Frequently Asked Questions
- Product Registration

– or –

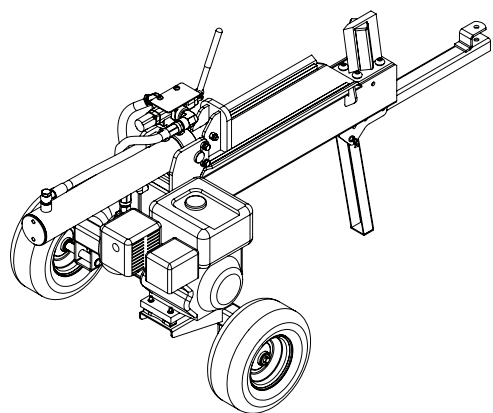
Call our Customer Care Team Toll-Free at:

1-877-338-0999

WARNING:

The Engine Exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

*We are always working to improve our products. Therefore, the enclosed product may differ slightly from the image on the cover.



15 Ton LOG SPLITTER

TABLE OF CONTENTS

Introduction	1	Maintenance Schedule	15
Introduction	1	Cleaning	15
Portable Log Splitter	1	Storage	15
Accessories	1	Log Splitter Storage	15
This Booklet	1	Engine stored for Less than 30 Days	15
Manual Conventions	2	Engines Stored for Over 30 Days	15
Safety Rules	3	Hydraulic Oil	15
Training	5	Specifications	16
Preparation	5	Log Splitter Specifications	16
Operation	6	Engine Specifications	16
Maintenance and Storage	6	Spark Plugs	16
Controls and Features	7	Maintenance Valve Clearance	16
Log Splitter	7	Hydraulic Oil System	16
Assembly	8	Fuel	16
Open Shipping Crate	8	Oil	16
1) Attach Beam to Axle Assembly	8	Parts Diagram	17
2) Install Wheels	8	Parts List	18
3) Install the Tow Bar and Support Leg	8	Engine Parts Diagram	19
4) Install the Engine	8	Engine Parts List	20
5) Install the Thrust Plate and Cylinder	9	Troubleshooting	21
6) Install the Hydraulic Hoses	9	Warranty	22
Add Engine Oil	9	Warranty Qualifications	22
Add Engine Fuel	10	Repair/Replacement Warranty	22
Add Hydraulic Oil	10	Do Not Return The Unit	
Operation	11	To The Place Of Purchase	22
Before Each Use Inspect the Log Splitter	11	Warranty Exclusions	22
Towing Log Splitter Safety	11	Normal Wear	22
Log Splitter Location	11	Installation, Use and Maintenance	22
Starting the Engine	12	Other Exclusions	22
Stopping the Engine	12	Limits of Implied Warranty	
Log Splitter Operation	13	and Consequential Damage	22
Operation at High Altitude	13	Contact Information	22
Maintenance and Storage	14	Address	22
Engine Maintenance	14	Customer Service	22
Oil	14	Technical Service	22
Spark Plugs	14		
Air Filter	14		
Log Splitter Maintenance	14		

INTRODUCTION

Introduction

Congratulations on your purchase of a Champion Power Equipment log splitter. CPE designs and builds log splitters to strict specifications. With proper use and maintenance, this log splitter will bring years of satisfying service.

Portable Log Splitter

This unit is a gasoline engine driven hydraulic log splitter. It is designed to split wood logs for use as firewood for a stove or fireplace. This log splitter will only split logs lengthwise, with the grain only.

Accessories

Champion Power Equipment manufactures and sells accessories designed to help you get the most from your purchase. To find out more, please visit our website at:
→ www.championpowerequipment.com

This Booklet

Every effort has been made to ensure the accuracy and completeness of the information in this manual. We reserve the right to change, alter and/or improve the product and this document at any time without prior notice.

Record the model and serial numbers as well as date and place of purchase for future reference. Have this information available when ordering parts and when making technical or warranty inquiries.

Champion Power Equipment Support	
1-877-338-0999	
Model Number	
91520	
Serial Number	
Date of Purchase	
Purchase Location	
For Oil Type see "Add Engine Oil" section. For Fuel Type see "Add Fuel" section.	

This manual uses the following symbols to help differentiate between different kinds of information. The safety symbol is used with a key word to alert you to potential hazards in operating and owning power equipment.

Follow all safety messages to avoid or reduce the risk of serious injury or death.

 DANGER

DANGER indicates an imminently hazardous situation which, if not avoided, **will** result in death or serious injury.

 WARNING

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

 CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, **may** result in minor or moderate injury.

CAUTION

CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, **may** result in property damage.

 NOTE

If you have questions regarding your log splitter, we can help. Please call our help line at **1-877-338-0999**

SAFETY RULES

WARNING

Read this manual thoroughly before operating your log splitter. Failure to follow instructions could result in serious injury or death.

WARNING

The engine exhaust from this product contains chemicals known to the state of California to cause cancer, birth defects, or other reproductive harm.

DANGER

Log Splitter engine exhaust contains carbon monoxide, a colorless, odorless, poison gas. Breathing carbon monoxide will cause nausea, dizziness, fainting or death. If you start to feel dizzy or weak, get to fresh air immediately.

Operate log splitter outdoors only in a well ventilated area. DO NOT operate the log splitter inside any building, enclosure or compartment. DO NOT allow exhaust fumes to enter a confined area through windows, doors, vents or other openings. **DANGER CARBON MONOXIDE**, using a log splitter indoors **CAN KILL YOU IN MINUTES**.

DANGER

Rotating parts can entangle hands, feet, hair, clothing and/or accessories. Traumatic amputation or severe laceration can result.

Keep hands and feet away from rotating parts. Tie up long hair and remove jewelry. Operate equipment with guards in place. DO NOT wear loose-fitting clothing, dangling drawstrings or items that could become caught.

WARNING

Operation of this equipment may create sparks that can start fires around dry vegetation.

A spark arrestor may be required. The operator should contact local fire agencies for laws or regulations relating to fire prevention requirements.

DANGER

Sparks can result in fire or electrical shock.

When servicing the engine:

Disconnect the spark plug wire and place it where it cannot contact the plug. DO NOT check for spark with the plug removed. Use only approved spark plug testers.

WARNING

Running engines produce heat. Severe burns can occur on contact. Combustible material can catch fire on contact.

DO NOT touch hot surfaces. Avoid contact with hot exhaust gases. Allow equipment to cool before touching. Maintain at least three feet of clearance on all sides to ensure adequate cooling. Maintain at least five feet of clearance from combustible materials.

WARNING

Crush Hazard

Wedge can cut through skin and break bones. Keep all limbs away from wedge and endplate.

WARNING

Projectile Hazard

Pieces of log may be ejected from the splitter while operating. **Wear ANSI approved safety glasses when operating. Be alert.**

WARNING

Keep Operator Work Zone Clear

Keep work zone clear of debris while working to ensure safe footing.

 DANGER

Skin Injection Hazard. High pressure hydraulic oil can inject under your skin.

Make sure all fittings are tightly secure before applying pressure. Relieve system of pressure before servicing.

 WARNING**Towing Hazard**

ALWAYS check all local and state regulations regarding towing, licensing and lights before towing your log splitter. Review towing safety warnings in your towing vehicle manual.

Drive safely. Be aware of the added length of the log splitter. NEVER ride or transport cargo on the log splitter. Choose a level surface to operate the log splitter.

NEVER EXCEED MAX. Towing Speed 15 MPH (24 KPH)

 WARNING

Rapid retraction of the starter cord will pull hand and arm towards the engine faster than you can let go. Unintentional startup can result in entanglement, traumatic amputation or laceration. Broken bones, fractures, bruises or sprains could result.

When starting engine, pull the starter cord slowly until resistance is felt and then pull rapidly to avoid kickback.

 CAUTION

Parts of the hydraulic circuit (cylinder, pump, valve-body, hoses) can become very hot during operation.

 DANGER

Fuel and fuel vapors are highly flammable and extremely explosive. Fire or explosion can cause severe burns or death. Unintentional startup can result in entanglement, traumatic amputation or laceration.

When adding or removing fuel:

Turn the engine off and let it cool for at least two minutes before removing the fuel cap. Loosen the cap slowly to relieve pressure in the tank. Only fill or drain fuel outdoors in a well-ventilated area. DO NOT pump gas directly into the engine at the gas station. Use an approved container to transfer the fuel to the engine. DO NOT overfill the fuel tank. Always keep fuel away from sparks, open flames, pilot lights, heat and other sources of ignition. DO NOT light or smoke cigarettes.

When starting the engine:

DO NOT attempt to start a damaged engine. Make certain that the gas cap, air filter, spark plug, fuel lines and exhaust system are properly in place. Allow spilled fuel to evaporate fully before attempting to start the engine.

Make certain that the log splitter is resting firmly on level ground.

When operating the log splitter:

DO NOT move or tip the log splitter during operation.

DO NOT tip the log splitter or allow fuel or oil to spill from the engine. Block the wheels to prevent unintended movement.

When transporting or servicing the log splitter:

Make certain that the fuel shutoff valve is in the off position and the fuel tank is empty.

Disconnect the spark plug wire.

When storing the log splitter:

Store away from sparks, open flames, pilot lights, heat and other sources of ignition.

 CAUTION

Improper treatment or use of the log splitter can damage it, shorten its life and void your warranty.

Use the log splitter only for intended uses. Operate only on level surfaces. DO NOT expose log splitter to excessive moisture, dust, or dirt.

DO NOT allow any material to block the cooling slots. DO NOT use the engine if:

- Equipment sparks, smokes or emits flames
- Equipment vibrates excessively

SAFETY RULES

Training

1. Read the Operator's Manual completely before attempting to use this log splitter.
2. Do not allow anyone to operate your log splitter who has not read the Operator's Manual or has not been instructed on the safe use of the log splitter.
3. Never allow children or untrained adults to operate this machine.
4. Many accidents occur when more than one (1) person operates the log splitter. If a helper is assisting in loading logs to be split, never actuate controls until helper is clear of the area.
5. Never allow anyone to ride on the machine.
6. Never transport cargo on the log splitter.
7. High fluid pressures are developed in hydraulic log splitters. Pressurized hydraulic fluid escaping through a pin hole opening can puncture skin and cause sever blood poisoning. Therefore, the following instructions should be heeded at all times.
 - a. Do not operate the unit with frayed, kinked, cracked or damaged hoses, fittings, or tubing.
 - b. Stop the engine and relieve hydraulic system pressure before changing or adjusting fittings, hoses, tubing, or other system components.
 - c. Do not adjust the pressure settings of the pump or valve.
 - d. Do not check for leaks with your hand. Leaks can be detected by passing cardboard or wood over the suspected area. Look for discoloration. If injured by escaping fluid, see a doctor at once. Serious infection or reaction can develop if proper medical treatment is not administered immediately.
8. Keep the operator zone and adjacent area clear for safe, secure footing.
9. If your log splitter is equipped with an internal-combustion engine and intended for use near any unimproved forest, brush, or grass covered land, the engine exhaust should be equipped with a spark arrestor. Make sure you comply with local, state, and federal codes. Take appropriate fire-fighting equipment with you.
10. Log splitters should be used only for splitting wood. Do not use for other purposes unless the manufacturer provides attachments and instructions.

Preparation

1. Be thoroughly familiar with all controls and with proper use of the equipment.
2. Safety Gear:
 - a. Always wear safety shoes or heavy boots when operating the machine.
 - b. Always wear safety glasses or goggles when operating the machine.
 - c. Never wear jewelry or loose-fitting clothing that might become entangled in moving or rotating parts of the machine.
3. Make sure the splitter is on a level surface. Block tires and ensure support leg is secure to prevent unintended movement of the log splitter during operation.
 - a. Always operate the splitter from the manufacturer's indicated operator zone.
4. Logs to be split on ram-type units should be cut as squarely as possible.
5. Fuel:
 - a. Use an approved fuel container.
 - b. Never add fuel to a running or hot engine.
 - c. Fill fuel tank outdoors with extreme care. Never fill fuel tank indoors.
 - d. Replace gasoline cap securely and clean up any spilled fuel.

Operation

1. Before starting this log splitter, review all safety rules. Failure to follow these rules may result in serious injury to the operator or bystanders.
2. Be sure to confirm all hose connections and hose clamps are tight before each use. It is possible for connections to vibrate loose over time.
3. Never leave the machine unattended with the power source operating.
4. Never operate the machine when under the influence of alcohol, drugs or medication.
5. The machine owner should instruct all operators in safe log splitter operation.
6. Always operate the log splitter with all safety equipment in place and all controls properly adjusted for safe operation.
7. Always operate the log splitter at manufacturer's recommended speed.
8. Always keep hands and feet clear of moving parts.
9. When loading a ram-type log splitter, place your hands on the sides of the log, not the ends. Never place your hands or any part of your body between a log and any part of the log splitter.
10. On ram-type log splitters, never attempt to split more than one (1) log at a time unless the ram has been fully extended and a second log is needed to complete the separation of the first log.
11. On ram-type log splitters on which the logs are not cut square, the longest portion of the log should be rotated down and the most square end placed against the ram.
12. Use only your hand to operate the log splitter controls.
13. Do not refuel the engine until it has cooled for several minutes.

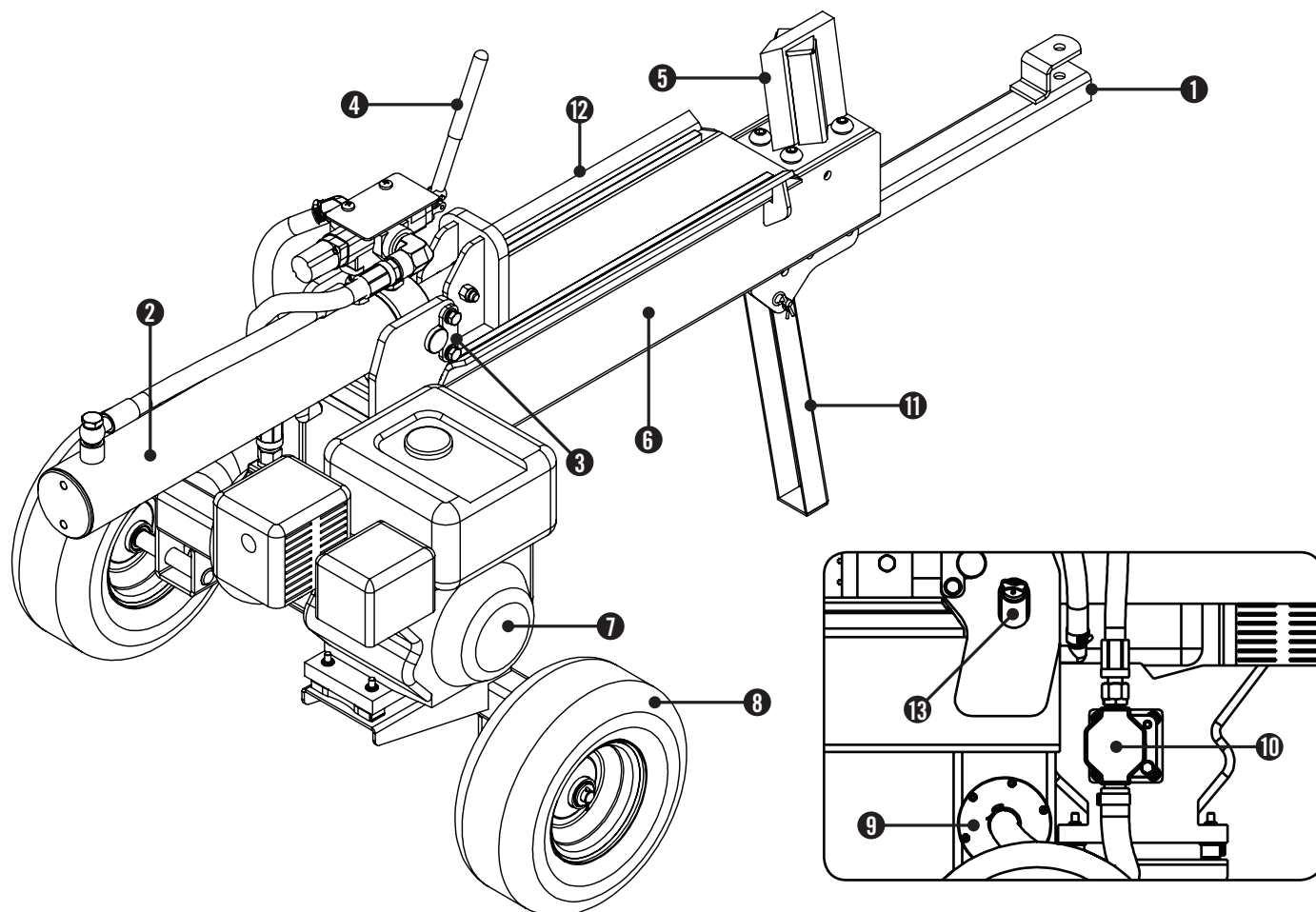
Maintenance and Storage

1. Always shut off the power source while repairing or adjusting the splitter except as recommended by the manufacturer.
2. Clean debris and chaff from the engine cylinder, cylinder head fins, recoil starter cord, and muffler areas. If the engine is equipped with a spark arrestor muffler, clean and inspect it regularly (follow manufacturer's service instructions). Replace, if damaged.
3. Never store the unit indoors with fuel in the tank. Fumes might reach an open flame spark. Allow the engine to cool before storing in any enclosure.
4. Clear debris from moveable parts, but only when the power source is shut off.
5. Check to be sure all nuts and bolts are tight to assure the equipment is in safe working condition.

CONTROLS AND FEATURES

Read this owner's manual before operating your log splitter. Familiarize yourself with the location and function of the controls and features. Save this manual for future reference.

Log Splitter



- | | |
|--|--|
| <p>(1) Yoke/Pin Style Tow Connection – For towing the log splitter behind an ATV, or lawn tractor.</p> <p>(2) Hydraulic Cylinder – Converts hydraulic pressure into linear force.</p> <p>(3) Mounting Plates – Holds hydraulic cylinder in place.</p> <p>(4) Control Valve Handle – Controls the movement of the thrust plate.</p> <p>(5) Wedge</p> <p>(6) Splitting Beam & Hydraulic Oil Tank</p> | <p>(7) Engine – 196cc, OHV, 4-stroke, air cooled.</p> <p>(8) Tires – Maximum travel speed is 15 MPH (24 KPH).</p> <p>(9) Hydraulic Oil Strainer</p> <p>(10) Hydraulic Pump – Pumps hydraulic oil through the system.</p> <p>(11) Support Leg – Supports log splitter while operating. Raise leg for towing.</p> <p>(12) Log Cradle – Prevents log from rolling off the beam.</p> <p>(13) Hydraulic Oil Dipstick</p> |
|--|--|

Your log splitter requires some assembly.

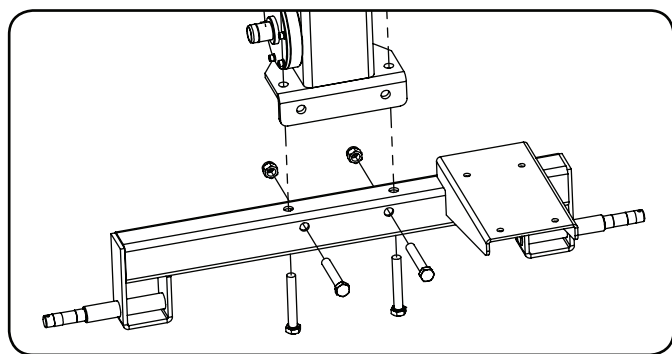
If you have any questions regarding the assembly of your log splitter, call our help line at 1-877-338-0999. Please have your serial number and model number available.

Open Shipping Crate

1. Set the shipping crate on a solid, flat surface
2. Carefully cut the shipping bands and remove lid of shipping crate.
3. Locate all hardware before beginning assembly.

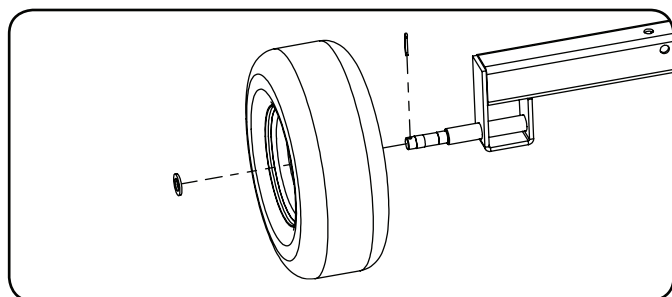
1) Attach Beam to Axle Assembly

1. Attach the splitting beam to the axle by inserting two M12x80 bolts into the bolt holes on the bottom of the axle and through the base plate on the bottom of the hydraulic oil tank below the splitting beam. Secure with two M12 lock nuts.
2. Insert two M12x75 bolts into the back of the axle and through the base plate on the bottom of the hydraulic oil tank. Secure with two M12 lock nuts.



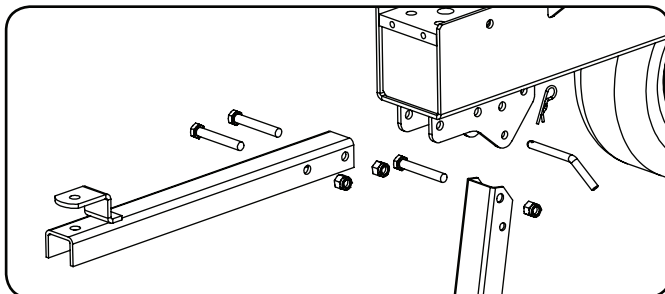
2) Install Wheels

1. Slide the wheel onto the axle.
2. Place washer on axle and secure with cotter pin.
3. Repeat for wheel on other side.



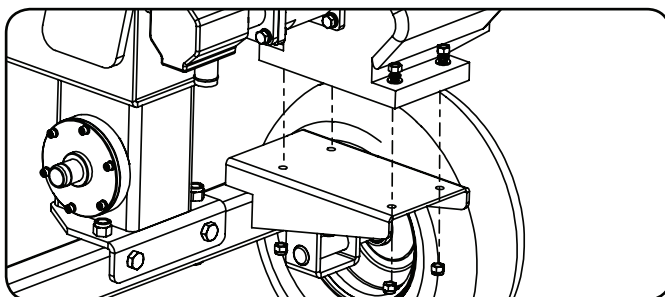
3) Install the Tow Bar and Support Leg

1. Attach the tow bar to the bracket on the bottom of the splitting beam opposite the axle. Secure with two M12x80 bolts and M12 lock nuts.
2. Attach the support leg to the same bracket on the bottom of the splitting beam. Secure with one M12x80 bolt and M12 lock nut.
3. Secure the support leg in the vertical position by inserting the L-pin through the bracket and support leg and securing with hair pin clip.



4) Install the Engine

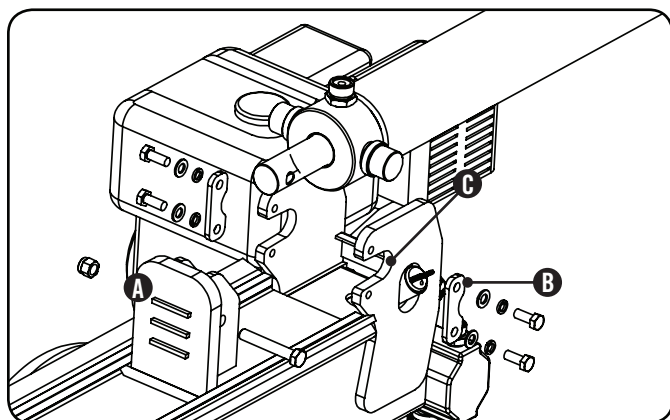
1. Place the engine on the engine bracket with the pump facing the cylinder.
2. Secure the engine with four M8x40 bolts, M8 washers, M8 lock washers and M8 nuts. Tighten to 18 ft-lb.



ASSEMBLY

5) Install the Thrust Plate and Cylinder

1. Slide the thrust plate (A) under the rails on the beam and push it to the front of the beam to make room for the cylinder.
2. Remove the cylinder retainer plates. (B)
3. Place the hydraulic cylinder into the mounting slots on the beam and slide all the way into the slots. (C)
4. Secure the cylinder by re-installing both cylinder retainer plates with two M12x25 bolts, M12 washers and M12 lock washers on each side.
5. Attach thrust plate to cylinder rod with M12x75 bolt and M12 lock nut. (A)

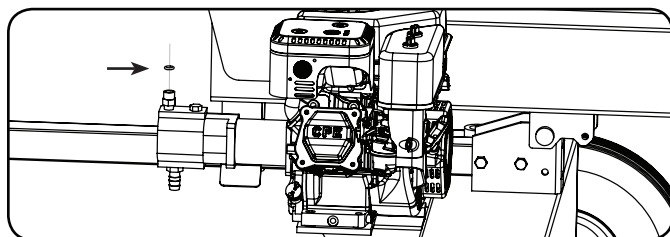


6) Install the Hydraulic Hoses

1. Place the O-ring into the counterbore in the pump outlet fitting.

NOTE

The pump outlet connection does NOT require teflon tape. The o-ring seals against the face of the fittings on the pump and hose. Tighten to approximately 12 ft-lb. Over-tightening can damage the pump.



2. Connect the high pressure hose from the inlet on the control valve to the pump outlet fitting.
3. Connect the oil return hose from to barbed fittings on the control valve to the barbed fittings on the beam/ hydraulic oil tank. Secure with hose clamps.
4. Connect the oil suction hose from the beam/hydraulic oil tank to the pump inlet. Secure with hose clamps.

Add Engine Oil

! CAUTION

DO NOT attempt to crank or start the engine before it has been properly filled with the recommended type and amount of oil. Damage to the log splitter as a result of failure to follow these instructions will void your warranty.

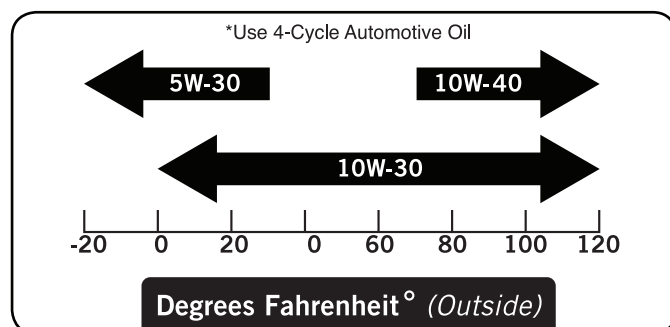
1. Make sure the log splitter is on a flat, level surface.
2. Remove oil fill cap/dipstick to add oil.
3. Add up to 0.63 qt (0.6 L) of oil (SAE 10W-30) - oil should cover all but 2 threads of filler hole. Replace oil fill cap/ dipstick.
4. Check engine oil level daily and add as needed.

CAUTION

The engine is equipped with a low-oil-shutoff and the will stop when the oil level in the crankcase falls below the threshold level.

NOTE

Check oil often during the break-in period. Refer to the Maintenance section for recommended service intervals.



Add Engine Fuel

1. Use clean, fresh, regular unleaded fuel with a minimum octane rating of 85 and an ethanol content of less than 10% by volume.
2. DO NOT mix oil with fuel.
3. Clean the area around the fuel cap.
4. Remove the fuel cap.
5. Slowly add fuel to the tank. DO NOT overfill. Allow approximately ¼ inch of space for fuel expansion.
6. Screw on the fuel cap and wipe away any spilled fuel.

! CAUTION

Use regular unleaded gasoline with a minimum octane rating of 85.

Do not mix oil and gasoline.
 Fill tank to approximately ¼" below the top of the tank to allow for fuel expansion.
 DO NOT pump gas directly into the generator at the gas station. Use an approved container to transfer the fuel to the generator.
 DO NOT fill fuel tank indoors.
 DO NOT fill fuel tank when the engine is running or hot.
 DO NOT overfill the fuel tank.
 DO NOT light cigarettes or smoke when filling the fuel tank.

! WARNING

Pouring fuel too fast through the fuel screen may result in blow back of fuel at the operator while filling.

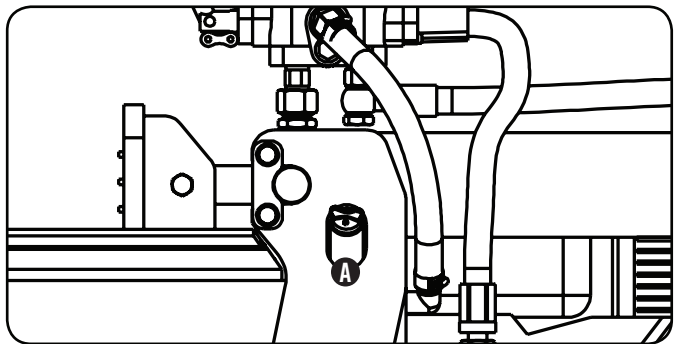
Add Hydraulic Oil

1. Make sure the log splitter is on a flat, level surface.
2. Remove the dipstick from the oil tank. (A)
3. Add 2 gal. (7.6 L) of hydraulic oil - 10W AW32, ASLE H-150, or ISO 32.

NOTE

When the outdoor temperature is below 32 °F, Dexron III transmission fluid can be used.

4. Check the hydraulic oil level using dipstick. Oil level should be between the two marks on the dipstick. (A)
5. Replace and tighten the dipstick.



! WARNING

DO NOT remove the dipstick when the engine is running or hot. Hot oil can escape causing severe burns. Always allow the log splitter to cool completely before removing the hydraulic oil cap.
 High fluid pressure and temperatures are created in the hydraulic log splitters. Hydraulic fluid will escape through a pin-size hole opening and can puncture skin and cause severe blood poisoning.
 Inspect hydraulic system regularly for possible leaks. Never check for leaks with your hand while the system is pressurized. Seek medical attention immediately if injured by escaping fluid.

6. Start Engine. Extend and retract the cylinder to purge air from the hydraulic system. Cylinder motion should be smooth and continuous.
7. Check the hydraulic oil tank dipstick. Add additional hydraulic oil if needed.
8. Check oil level daily and add as needed.

NOTE

To check oil level, insert the dipstick into fill neck until it stops. Remove and read level. Do not thread dipstick into fill neck when checking oil.

OPERATION

Before Each Use Inspect the Log Splitter

1. Check the hydraulic oil level and visually inspect all hoses, attachments and cylinder for loose fittings, leaks, cracks, fraying or other damage.
2. DO NOT operate the log splitter if there is any indication of damage.
3. Inspect the engine and make sure the oil level is correct before operating. If the engine is equipped with a spark arrestor, clean and inspect it regularly (follow spark arrestor maintenance schedule).
4. The tires need to be fully inflated and in good repair. Reference the tire sidewall for recommended tire pressure.

WARNING

DO NOT over inflate tires. Serious injury can result if tires explode.
DO NOT tow the log splitter if the tires are worn or will not hold air.
DO NOT exceed the maximum 15 MPH (24 KPH) towing speed.

Towing Log Splitter Safety

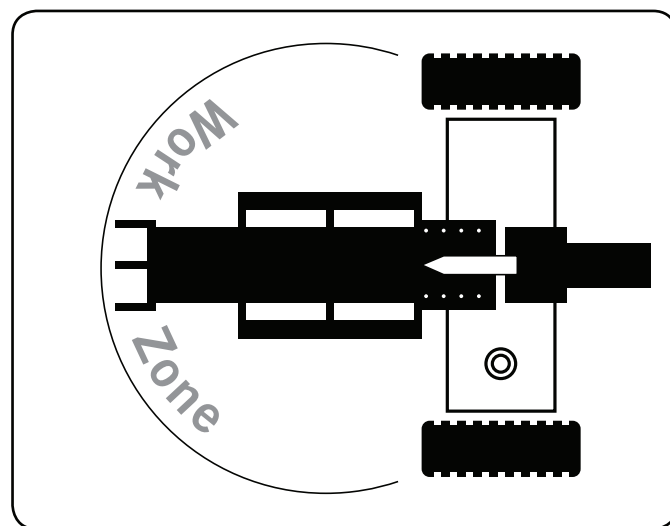
1. Always check local and state regulations regarding the requirements for towing, licensing and lights.
2. Before towing make sure the log splitter is correctly and securely attached to the vehicle and the safety chains attached with enough slack to allow for turning.
3. Never exceed the max. travel speed of 15 mph. Towing the log splitter at speeds greater than 15 mph could result in serious injury or death. Always adjust your towing speed according to the terrain and conditions.
4. Always disconnect the log splitter from the towing vehicle before operating.
5. Always disconnect the log splitter from the towing vehicle before operating.

Log Splitter Location

This log splitter must have at least seven feet of clearance from combustible material. Leave at least three feet of clearance on all sides of the log splitter to allow for adequate cooling, maintenance and servicing. DO NOT place the log splitter near vents or intakes where engine exhaust fumes could be drawn into occupied or confined spaces. **Always operate the log splitter outdoors.**

The log splitter needs to be on a dry level surface with good footing. DO NOT work on mud, ice, tall grass, brush or snow.

Only operate log splitter from work zone shown below.



Log Splitter Location Cont'd.

WARNING

ALWAYS use the log splitter for its intended use. The log splitter should only be used to split wood logs, length wise with the grain.

NEVER modify, alter or change the log splitter in anyway. Modifications will void the warranty.

NEVER attach a rope, cable or other device to the control lever on the log splitter.

DO NOT modify or change the engine and operating speeds or pressure settings. These changes can cause safety issues.

ONLY operate the log splitter in daylight.

NEVER operate, or let anyone else operate, the log splitter while under the influence of alcohol, drugs, or medication.

NEVER leave the log splitter unattended while the engine is running.

DO NOT change the splitting position with the engine running. Contact with the muffler can cause serious burns.

Always make sure the beam is in the locked position.

DO NOT let the beam drop as it could crush fingers or cause damage to the log splitter.

Starting the Engine

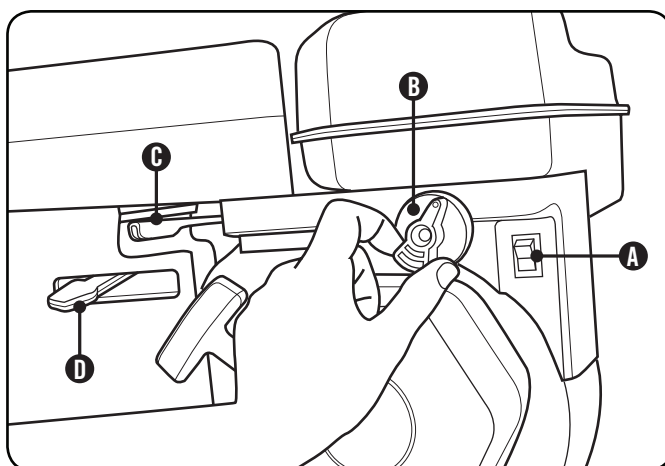
1. Make certain the log splitter is on a flat, level surface.
2. Flip engine switch to "ON" position (Item A).
3. Rotate the fuel valve to the "ON" position (Item B).
4. Move the throttle lever (Item C) to the "Fast" position.
5. Move the choke lever (Item D) to the "Choke" position.
6. Pull the starter cord slowly until resistance is felt and then pull rapidly. **SEE NOTE BELOW.**

NOTE

Keep choke lever in "Choke" position for 2 pulls of the recoil starter. After first pull, move choke lever to the "Run" position for up to the next 3 pulls of the recoil starter. Too much choke leads to spark plug fouling/engine flooding due to the lack of incoming air. This will cause the engine not to start.

7. As engine warms up, move the choke lever (Item D) to "Run."

Starting the Engine Cont'd.

**NOTE**

If the engine starts but does not run make certain that the log splitter is on a flat, level surface. The engine is equipped with a low oil sensor that will prevent the engine from running when the oil level falls below a critical threshold.

The hydraulic oil needs to be above 10° F (-12° C) before starting the engine. Cold hydraulic oil can damage the hydraulic pump.

If outdoor air temperature is below 32° F (0° C) allow the log splitter to warm up by extending and returning the wedge several times before splitting wood.

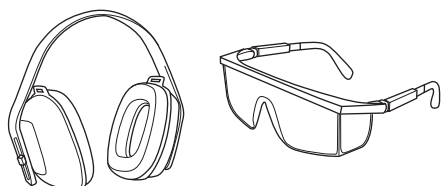
Stopping the Engine

1. Turn the engine switch to the "Off" position. (A)
2. Turn the fuel knob to the "Off" position. (B)

OPERATION

Log Splitter Operation

1. ALWAYS wear ear and eye protection, protective clothing and safety gear.



2. Block tires and ensure support leg is secure to prevent unintended movement of the log splitter during operation.
3. Load a log onto the beam against the wedge.

! CAUTION

Back injury can result from lifting logs onto the log splitter if proper lifting techniques are not used.

4. Make sure all limbs are clear of crush zones.
5. Push and hold the control valve handle forward (towards the wedge) to split the log. The wedge will stop when the control valve handle is released, or when the cylinder reaches the end of stroke.
6. Push the control valve handle backward and release to return the wedge to its original position. The control valve handle will return to the neutral position when the wedge is fully retracted.
7. Clear the split wood from the work zone.

! CAUTION

Do not hold auto control valve in return position. It will damage the stop block or beam.

NOTE

It is normal for the hydraulic fluid to become foamy or frothy during operation.

NOTE

If log sticks on wedge, load another piece of wood and extend ram to push the stuck piece off the wedge.

NOTE

The cylinder stroke is designed so the wedge stops approximately 1.5 in. (3.81 cm) from the end plate.

Operation at High Altitude

The density of air at high altitude is lower than at sea level. Engine power is reduced as the air mass and air-fuel ratio decrease. Engine power and generator output will be reduced approximately 3½% for every 1000 feet of elevation above sea level. This is a natural trend and cannot be changed by adjusting the engine. At high altitudes increased exhaust emissions can also result due to the increased enrichment of the air fuel ratio. Other high altitude issues can include hard starting, increased fuel consumption and spark plug fouling. To alleviate high altitude issues other than the natural power loss, Champion Power Equipment can provide a high altitude carburetor main jet. The alternative main jet and installation instructions can be obtained by contacting Customer Support. Installation instructions are also available in the Technical Bulletin area of the Champion Power Equipment internet site.

The part number and recommended minimum altitude for the application of the high altitude carburetor main jet is listed in the table below.

In order to select the correct high altitude main jet it is necessary to identify the carburetor model. For this purpose, a code is stamped on the side of the carburetor. Select the correct main jet part number corresponding to the carburetor code found on your particular carburetor.

Carburetor Code	Main Jet	Part Number	Altitude
P19-1-Z	Standard	ST168F-2-1131000-17Z	6000 Feet (1800 Meters)
	Altitude	468.131017.01	

! WARNING

Operation using the alternative main jet at elevations lower than the recommended minimum altitude can damage the engine. For operation at lower elevations, the standard main jet must be used. Operating the engine with the wrong engine configuration at a given altitude may increase its emissions and decrease fuel efficiency and performance.

The owner/operator is responsible for all periodic maintenance.

WARNING

Never operate a damaged or defective log splitter.

WARNING

Improper maintenance will void your warranty.

NOTE

For service or parts assistance, contact our help line at **1-877-338-0999**.

Complete all scheduled maintenance in a timely manner. Correct any issue before operating the log splitter.

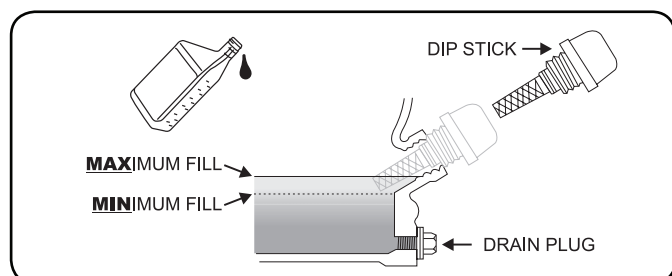
Engine Maintenance

To prevent accidental starting, remove and ground spark plug wire before performing any service.

Oil

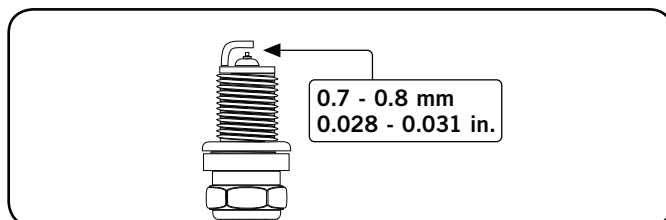
Change oil when the engine is warm. Refer to the oil specification to select the proper grade of oil for your operating environment.

1. Remove the oil drain plug with a 12 mm socket and extension.
2. Allow the oil to drain completely.
3. Replace the drain plug.
4. Remove oil fill cap/dipstick to add oil.
5. Add up to 0.63 qt. (0.6 L) of oil and replace oil fill cap/dipstick.
6. Dispose of used oil at an approved waste management facility.



Spark Plugs

1. Remove the spark plug cable from the spark plug.
2. Inspect the electrode on the plug. It must be clean and not worn to produce the spark required for ignition.
3. Make certain the spark plug gap is 0.7 - 0.8 mm (0.028 - 0.031 in.).



4. Refer to the spark plug recommendation chart when replacing the plug.
5. Carefully thread the plug into the engine.
6. Use the spark plug tool to firmly install the plug.
7. Attach the spark plug wire to the plug.

Air Filter

1. Unscrew wing nut to remove the air filter cover.
2. Unscrew wing nut to remove the air filter.
3. Separate the foam element and the paper element.
4. Tap the paper filter element to remove dirt and debris. Use compressed air (25 PSI) to clear debris.
5. For the foam element: Wash in liquid detergent and water. Squeeze thoroughly dry in a clean cloth.
6. Saturate in clean engine oil.
7. Squeeze in a clean, absorbent cloth to remove all excess oil.
8. Reassemble the two elements and reattach. Tighten wing nut.
9. Reattach the air filter cover and snap in place.

Log Splitter Maintenance

Make certain that the log splitter is kept clean and stored properly. Only operate the unit on a flat, level surface in a clean, dry operating environment. DO NOT expose the unit to extreme conditions, excessive dust, dirt, moisture or corrosive vapours.

Inspect all air vents and cooling slots to ensure that they are clean and unobstructed.

Clean spark arrester every 100 hours (if equipped).

Check and tighten all bolts and nuts before operating the log splitter.

MAINTENANCE AND STORAGE

Maintenance Schedule

Follow the service intervals indicated in the schedule below. Service your log splitter more frequently when operating in adverse conditions. Contact our help line at **1-877-338-0999** to locate the nearest Champion Power Equipment authorized service dealer for your log splitter or engine maintenance needs.

Every 8 hours or daily	
	Check engine and hydraulic oil levels
	Clean around air intake and muffler
First 5 Hours	
	Change engine oil
Every 50 hours or every season	
	Clean air filter
	Change engine oil if operating under heavy load or in hot environments
Every 100 hours or every season	
	Change engine oil
	Clean/Adjust spark plug
	Check/Adjust valve clearance *
	Clean fuel tank and filter *
	Change hydraulic oil
Every 250 hours	
	Clean combustion chamber*
Every year	
	Inspect wheel bearings and repack bearing grease as needed.
Every 3 years	
	Replace fuel line

*To be performed by knowledgeable, experienced owners or Champion Power Equipment certified dealers.

Cleaning

! CAUTION

DO NOT use a garden hose to clean the engine or log splitter.

Water can contaminate the fuel system and can enter the engine through the cooling slots and damage the engine.

Clear the debris from the beam, wedge and endplate. Use a damp cloth to clean exterior surfaces of the engine and log splitter.

Use a soft bristle brush to remove excess dirt and oil. Use an air compressor (25 PSI) to clear dirt and small debris. Wipe all metal parts with an oily rag to help prevent rust and corrosion.

Storage

Refer to the Maintenance section for proper cleaning instructions.

Log Splitter Storage

1. The log splitter needs to be cool for at least 5 minutes before storing.
2. Clean the log splitter before storage according to the Maintenance section.
3. Retract the wedge to protect the rod from corrosion.
4. Wipe the beam and wedge with an oily rag to prevent rust and corrosion.

Engine stored for Less than 30 Days

1. Allow the engine to cool completely before storage.
2. Clean engine according to the Maintenance section.
3. To extend the fuel storage life add fuel stabilizer.
4. Turn the fuel valve to the "Off" position.

Engines Stored for Over 30 Days

1. Run the engine with the fuel valve in the "Off" position until the engine stops.
2. The engine needs to cool completely before storage.
3. Clean engine according to the Maintenance section.
4. Drain all fuel completely from the fuel line and carburetor to prevent gum from forming.
5. Add a fuel stabilizer into the fuel tank.
6. Change the oil.
7. The fuel valve needs to be in the off position.
8. Remove the spark plug and pour about 14 g (½ oz.) of oil into the cylinder. Crank the engine slowly to distribute the oil and lubricate the cylinder.
9. Reattach the spark plug.

! WARNING

Never store the log splitter inside next to appliances where there is a source of heat or open flame, spark or pilot light because they can ignite gasoline vapours.
DO NOT store a log splitter near fertilizer or any corrosive material.
Even with an empty gas tank, gasoline vapours could ignite.

Hydraulic Oil

1. Change hydraulic oil when the log splitter is warm. Change after first 50 hours, then every 100 hours.
2. Place a collection pan under the tank.
3. Remove drain plug on the bottom of the tank and allow oil to drain completely.
4. Replace oil drain plug.
5. Remove dipstick and add 2 gallons (7.57 L) of hydraulic oil.
6. Start engine and purge air from hydraulic system.

Log Splitter Specifications

- Ram Force 15 Ton
- Cycle Time, Max 10 seconds
- Hydraulic Tank Capacity 2 gal. (7.57 L)
- Max Log Length 19.7 in. (50 cm)
- Max Log Weight 100 lb. (45 kg)
- Towing Yoke/Pin Style Connection
- Tire Size, Outside Diameter 12-in. (30.5 cm)
- Max towing speed 15 MPH (24 KPH)
- Engine 196 cc, OHV, 4 stroke
- Cylinder size 3.35 in. diameter (8.5 cm)
- Gear Pump 2-stage
- Max pressure 3500 psi
- Max flow 8 GPM
- Control Valve Detent (auto-return)
- **Overall Dimensions**
- Gross Weight 271.2 lb. (123 kg)
- Net Weight 242.5 lb. (110 kg)
- Height 38.4 in. (97.5 cm)
- Width 35.8 in. (90.9 cm)
- Length 70.6 in. (179.3 cm)

Engine Specifications

- Model 66533
- Displacement 196 cc
- Type 4-Stroke OHV
- Start Type Recoil

Spark Plugs

OEM spark plug: NHSP F6RTC

Replacement spark plug: NGK BPR6ES or equivalent

Make certain the spark plug gap is 0.7 - 0.8 mm or (0.028 - 0.031 in.).

Maintenance Valve Clearance

- Intake: 0.13 – 0.17 mm (0.005 – 0.007 in.)
- Exhaust: 0.18 – 0.22 mm (0.007 – 0.009 in.)

Note: Tech bulletin regarding the valve adjustment procedure is on www.championpowerequipment.com.

Hydraulic Oil System

Oil capacity is 2.7 gallons (10.2 L).

Use types 10W AW32, ASLE H-150, ISO32 or universal hydraulic fluid.

Spin-On Filter – 15GPM, 10 Micron, ¾-16 Thread.

NOTE

When temperature is below 32° F (0°C) use universal tractor/transmission fluid.

Fuel

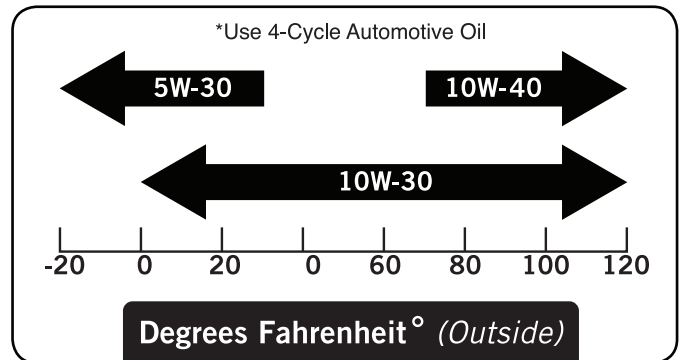
Fuel capacity is 0.93 gallons (3.5 L). Use regular unleaded gasoline with a minimum octane rating of 85 and an ethanol content of less than 10% by volume.

Oil

Use 4-Cycle automotive oil.

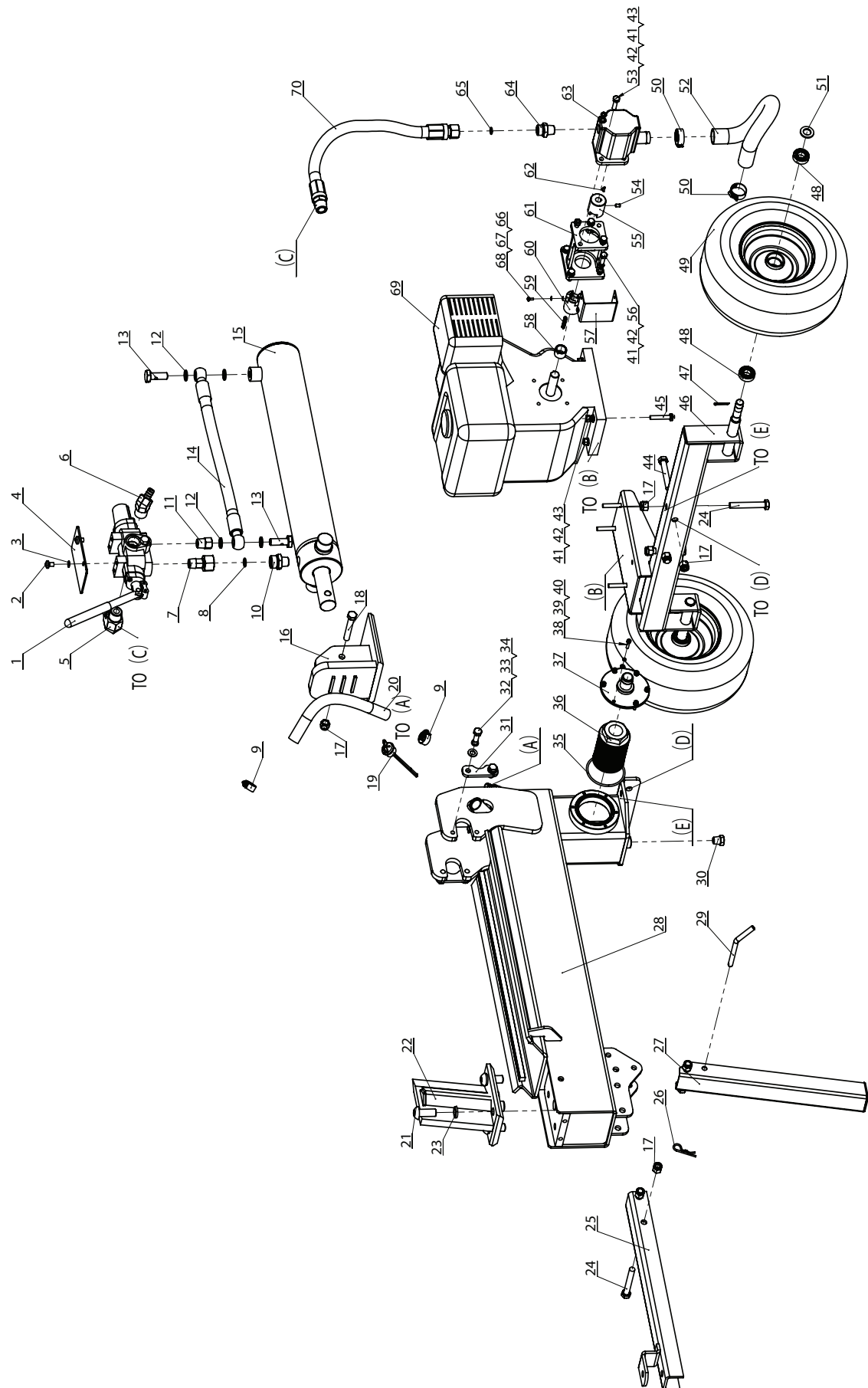
Oil capacity is up to 0.63 qt (0.6 L).

Please reference the following chart for recommended oil types for use in the log splitter.



SPECIFICATIONS

Parts Diagram

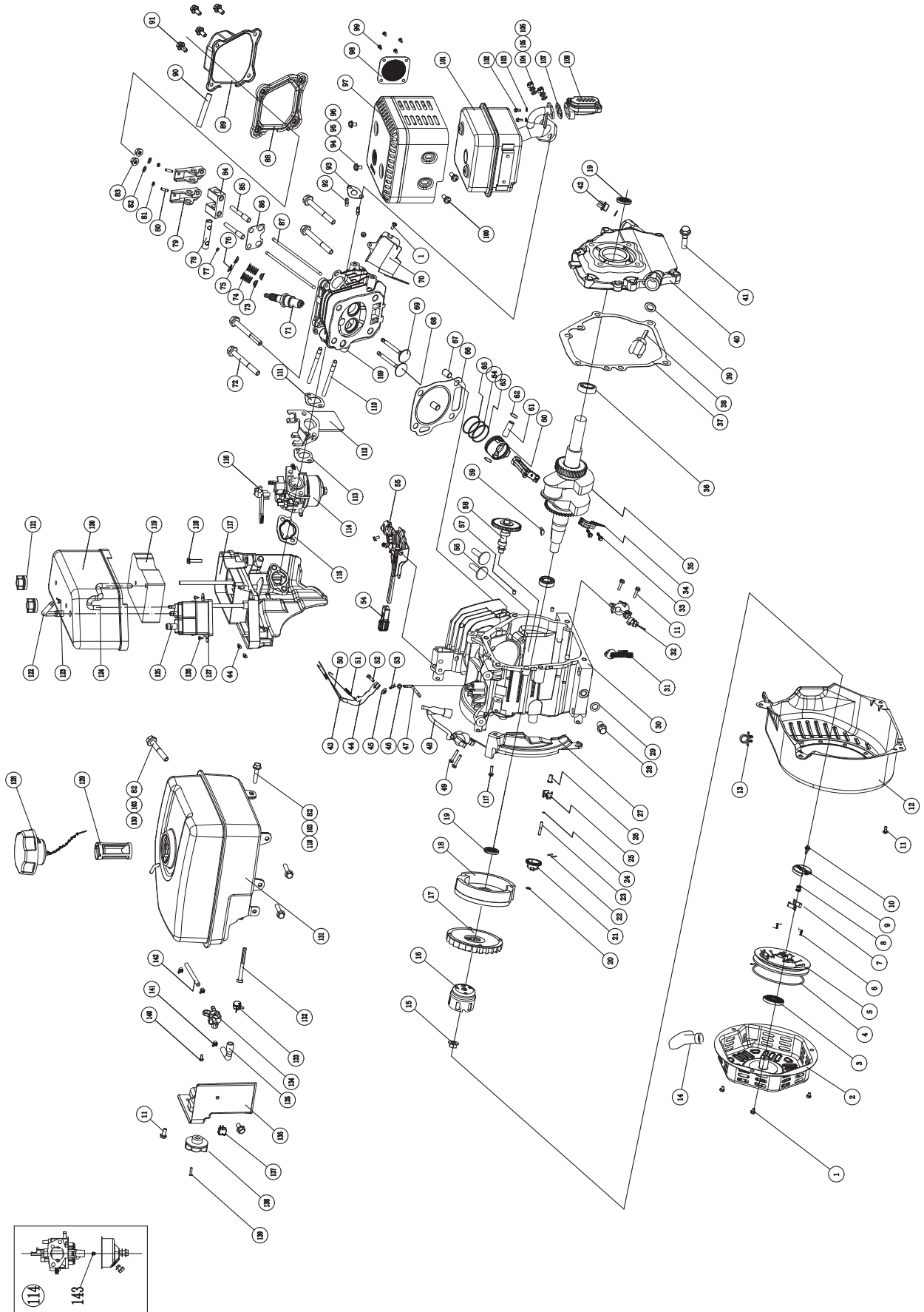


#	Part number	Description	Qty
1	PMJ22J-12	Control Valve	1
2	GB/T 818-2000	Bolt M8x12	2
3	GB/T 859-1987	Washer 8	2
4	PMJ22J-22	Plate	1
5	PMJ22G-51	Filter Housing "IN" Connection	1
6	PMJ22G-49	Filter Housing "OUT" Connection	1
7	PMJ22G-25	Valve Joiner	1
8	GB/T 3452.1-92	"O" Ring 14x2.65	1
9	JB/T 8870 1999	Clamp d25	2
10	PMJ22G-22	Front Cover Connector	1
11	PMJ22G-24	Valve Joiner	1
12	JB 982-1977	Combination Washer 14	4
13	PMJ22G-23	Bolt Connector	2
14	PMJ15-15	Hydraulic Hose(Valve-Cylinder)	1
15	PMJ15-08-00	Cylinder	1
16	PMJ15-03	Thrust Plate	1
17	GB/T 889.1-2000	Lock Nut M12	8
18	PMJ22J-20	Bolt M12x75(12.9)	1
19	PMJ15-11	Dipstick	1
20	PMJ15-13	Hydraulic Hose(Valve-Oil Tank)	1
21	GB/T 70.2-2000	Bolt M16x40	4
22	PMJ15-02	Wedge Slide	1
23	GB/T 93-1987	Lock Washer 16	4
24	GB/T 5782-2000	Bolt M12x80	5
25	PMJ15-06	Tow Bar	1
26	PMJ22G-30	R Pin	1
27	PMJ15-07	Front Support Leg	1
28	PMJ15-01	Beam&Oil Tank	1
29	PMJ15-16	Pin	1
30	PMJ22G-19	Oil Plug	1
31	PMJ15-05	Cylinder Fixed Plate	2
32	GB/T 5781-2000	Bolt M10x25	4
33	GB/T 95-2000	Washer 10	4
34	GB/T 93-1987	Lock washer 10	4

#	Part number	Description	Qty
35	GB/T 3452.1-92	"O" Ring 80x3.55	1
36	PMJ22G-44	Filter	1
37	PMJ22G-07-00	Filter Fixed Plate	1
38	GB/T 70.1-2000	Screw M5x20	6
39	GB/T 93-1987	Lock Washer 5	6
40	GB/T 95-2000	Washer 5	6
41	GB/T 95-2000	Washer 8	12
42	GB/T 93-1987	Lock Washer 8	12
43	GB/T 6170-2000	Nut M8	8
44	GB/T 5782-2000	Bolt M12x75	2
45	GB/T 5782-2000	Bolt M8x40	4
46	PMJ15-04	Engine & Wheel Fixed Mount	1
47	GB/T 91-2000	Cotter Pin 3.2x25	2
48	GB/T 276-94	Tapered Bearing	4
49	13X5.0-6	Wheel	2
50	JB/T 8870 1999	Clamp d40	2
51	GB/T 95-2000	Washer 16	2
52	PMJ15-14	Oil Pipe	1
53	GB/T 5783-2000	Bolt M8x30	4
54	GB/T 77-2000	Screw M6x10	1
55	PMJ22G-26	Gear Pump Connector	1
56	ASME B18.2.1 1996	Bolt 5/16"-24x1"	4
57	PMJ22G-32	Connector Cover	1
58	PMJ22G-29	Engine Bushing	1
59	GB/T 1096-1979	Flat Key	1
60	PMJ22G-28	Engine Connector	1
61	PMJ22G-27	Gear Pump Stand	1
62	GB/T 1099-1979	Flat Key	1
63	PMJ22G-42	Gear Pump	1
64	PMJ22G-21	Outlet Connector Of Pump	1
65	GB/T 3452.1-92	"O" Ring 10x2.65	1
66	GB/T 848-1985	Washer 4	4
67	GB/T 859-1987	Lock Washer 4	4
68	GB/T 818-2000	Bolt M4x10	4
69	PMJ22G-196CC-GC10	Engine	1
70	PMJ15-12	Hydraulic Hose(Valve-Pump)	1

SPECIFICATIONS

Engine Parts Diagram



#	Part Number	Description	Qty
1	GB5789-86-FB6-8	Flange bolt M6*8	5
2	160.061100.32	Recoil starter cover	1
3	ST160F-1061005	Recoil starter spring	1
4	ST160F-1061009	Recoil starter rope	1
5	ST160F-1061001-A	Recoil starter reel	1
6	ST188F-1060006	spring Ratchet	2
7	ST188F-1060005	Starter ratchet Metal	2
8	ST188F-1060004	Ratchet guide spring	1
9	ST188F-1060003	Ratchet guide	1
10	ST188F-1060002	screw,Ratchet guide	1
11	GB5789-86-FB6-12	Flange bolt M6*12	10
12	ST168F-1080100-G	Fan cover Assembly	1
13	ST168F-1070008-G	clip,Tube 9.5	1
14	ST160F-1061200	Recoil starter knob	1
15	ST160F-1050010	Nut M14	1
16	ST160F-1060001-A	Start hub	1
17	ST168F-1080001	Cooling fan	1
18	ST168F-1120100	Fly wheel	1
19	ST168F-1030100	Oil seal	2
20	ST160F-1110106	washer,Governor	1
21	ST160F-1110101	Governor gear	1
22	ST160F-1110102	pin weight	2
23	ST160F-1110104	shaft,governor gear	1
24	ST160F-1110103	circlip,governor gear	1
25	ST160F-1110107	Governor weight	2
26	ST160F-1110105-A	bushing,governor	1
27	ST168F-1080200	air guider	1
28	ST160F-1030003	Drain bolt	2
29	ST160F-1030004	washer,Drain bolt	2
30	ST168F-II-1030012-G	Crankcase for USA	1
31	ST168F-1129000-G	Diode comp	1
32	ST160F-1127000-A	Oil level sensor	1
33	GB5758 AM7×35	Flange bolt	2
34	ST168F-1050100	Connecting rod assembly	1
35	ST168F-II-1050001-Q	Crankshaft Assembly	1
36	GB/T—276--94	Radial ball bearing 6205	2
37	ST168F-1030008-G	gasket,crankcase	1
38	ST160F-1030001-B	oil dipstick	1
39	ST160F-1030002	gasket,oil dipstick	2
40	ST168F-1030007-G	Crankcase cover for USA	1
41	GB5789-86-FB8-32	Flange bolt 8*32	6
42	ST160F-1030005-B	Oil filler cap	1
43	ST168F-1110005	spring,Throttle return	1
44	ST160F-1110003	Governor arm	1
45	GB6177-86-N6	Nut M6	3
46	ST160F-1110108	washer,Governor	1
47	ST160F-1110001	shaft,Governor arm	1
48	ST160F-1123000-G	ignition coil	1
49	GB5789-86-FB6-25	Flange bolt 6*25	2
50	ST168F-1110006	rod,joint	1
51	ST168F-1110007	spring,Governor	1
52	ST160F-1110004	bolt,Governor arm	1
53	ST160F-1110008	pin,shaft	1
54	168.111008.01	SHEATH,Control handle	1
55	168.111000.30	Control assembly	1
56	ST160F-II-1040013	lifter,Valve	2
57	ST168F-1030015-G	Dowel pin 9*14	2
58	ST168F-II-1041000	Camshaft assembly	1
59	4X7.5X19-GB1099-79	Key	1
60	ST168F-II-1050005	Piston	1
61	ST168F-1050003	wrist pin	1
62	ST168F-1050004	Piston pin clip	2
63	ST168F-1050200	ring,oil	1
64	ST168F-1050006	ring,second	1
65	ST168F-1050007	ring,first	1
66	ST168F-II-1030009-G	gasket,cylinder head	1
67	152FMD-1001007	Dowel pin 10*16	2
68	ST168F-1040002	valve,intake	1
69	ST168F-1040006	valve,exhaust	1
70	ST168F-II-1080002-G	gasket,cylinder head	1
71	F6RTC	Spark plug	1
72	GB5789-86-FB8-55	Flange bolt 8*55	4
73	ST168F-1040014	oil seal,valve	2

#	Part Number	Description	Qty
74	ST160F-1040003	spring,valve	2
75	ST160F-1040007	retainer,exhaust valve	1
76	ST160F-1040001	retainer,intake valve	1
77	ST160F-1040008	rotator,exhaust valve	1
78	168.040202.34	shaft,rocker arm	1
79	ST160F-1040022	rocker arm	2
80	ST160F-1040024	screw,valve adjustment	2
81	ST168F-1040025	lock nut	2
82	GB97.1 6	washer 6	6
83	GB6183-86-M6	Nut M6	2
84	168.040201.34	retainer,rocker arm	1
85	ST168F-1040027	stud bolt,rocker arm	2
86	168.040004.34	Guide push rod	1
87	ST168F-1040005	Push rod	2
88	ST160F-1020002-A	gasket,cylinder cover	1
89	ST168F-1020100-C	cylinder cover assembly	1
90	ST160F-1020001	Breather tube	1
91	GB5789-86-FB6-15	Flange bolt M6*15	4
92	ST160F-1010002	Stud bolt	2
93	ST168F-1100200-G	Gasket,Muffler(no asbestos)	1
94	GB16674 M5×10	Screw M5×10	2
95	GB848-85-W5	washer 5	2
96	GB859-87-SW5	Lock washer 5	2
97	168.101200.34	Cover,Muffler	1
98	188.101300.34	SPARK ARRESTER	1
99	GB818 M4×6	bolt M4X6	4
100	GB9074.4 M5×10	bolt M5X10	2
101	168.101100.36	Muffler Assembly	1
102	GB16674 M6×16	Screw M6×16	2
103	GB859-87-SW6	Lock washer 6	6
104	GB6170-86-N8	Nut M8	2
105	GB848-85-W8	washer 8	2
106	GB859-87-SW8	Lock washer 8	2
107	ST168FD-1100003-CARB	Gasket,Secondary Air Intake Valve	1
108	ST168FD-1160300-CARB	Secondary Air Intake Valve	1
109	ST168F-II-1010100-G	Cylinder head	1
110	ST160F-1010001	Stud bolt 6*110	2
111	ST168F-1130002-CPE	Gasket,Insulator no asbestos)	1
112	ST168F-1130001	insulator,Carburetor	1
113	ST160F-1130003-CPE	Gasket,Carburetor no asbestos)	1
114	ST168F-II-1131000-G	Carburetor assembly	1
115	ST160F-1130004	washer,Air Cleaner Base	1
116	ST160F-1130100	Choke Handle	1
117	168.091100.34	Base,Air cleaner	1
118	GB5789-86-FB6-20	Flange bolt M6*20	5
119	168.091003.36	element,Air cleaner	1
120	168.091200.36	cover,Air cleaner	1
121	ST168F-1090100-C	nut,Air cleaner cover (plastic)	2
122	160.070014.01	Pipe,Reversal Valve	1
123	ST160F-1070007	clip	1
124	160.070013.01	Pipe,Air Cleaner	1
125	ST168F-1071400-GC	Carbon Canister	1
126	GB/T 845 ST2.9×6.5	Screw	2
127	03.032001.00	washer	2
128	168.070100.05	Fuel tank cap	1
129	0902.070301.00	Fuel filter	1
130	GB5789-86-FB6-29	Flange bolt M6*29	1
131	168.071000.36	Fuel tank Assembly	1
132	ST152FD-1070200	Fuel filter	1
133	ST168F-1070006-F	clip	1
134	ST168F-1070200-G	Fuel Cock	1
135	ST168F-1070005-G	Tube 2	1
136	168.070010.34	veil,fuel tank	1
137	ST01FD-05071001	Switch	1
138	ST168F-1070003-G	knob,Fuel valve	1
139	GB818-88-B4-12	bolt M4X12	1
140	GB16674-1-FB5-12	Flange bolt M5*12	1
141	ST188FD-1070006A	clip 8	3
142	ST168F-1070004-G	Tube 1	1
143A	ST168FD-2-1131000-17	Standard Main Jet	1
143B	468.131017.01	Altitude Main Jet	-

TROUBLESHOOTING

Problem	Cause	Solution
Engine will not start.	No fuel.	Add fuel.
	Faulty spark plug.	Replace spark plug.
	Unit loaded during start up.	Remove load from unit.
Engine will not start; Engine starts but runs roughly.	Low oil level.	Fill crankcase to the proper level.
		Place log splitter on a flat, level surface.
	Choke in the wrong position.	Adjust choke
Engine shuts down during operation.	Spark plug wire loose.	Adjust choke
	Out of fuel.	Fill fuel tank
	Low oil level.	Fill crankcase to the proper level. Place log splitter on a flat, level surface
Engine cannot supply enough power or overheating.	Insufficient ventilation.	Check for air restriction. Move to a well ventilated area
Wedge movement is slow or erratic.	Air in the hydraulic oil system.	Purge air by extending and retracting the wedge several times until motion is smooth.
	Debris lodged in beam guides.	Clear debris from beam.
	Low hydraulic oil.	Check oil level and add as needed.
Oil leak from hose connection.	Loose hose clamp or hydraulic fitting.	Tighten hose clamp or hydraulic fitting.
Oil leak from cylinder.	Faulty cylinder rod seal.	Contact Customer Service.
	Scored or bent cylinder rod.	Contact Customer Service.
	Loose hydraulic fitting.	Tighten hydraulic fitting.
	Faulty combination washer seal on cylinder hydraulic fitting.	Contact Customer Service.
Wedge will not extend or retract.	Faulty control valve.	Contact Customer Service.
	Faulty hydraulic pump.	Contact Customer Service.
	Low hydraulic oil.	Check oil level and add as needed.
Wedge does not Auto-Return.	Low hydraulic oil.	Check oil level and add as needed.
	Faulty control valve.	Contact Customer Service.
Excessive bouncing while towing.	Under-inflated tires.	Inflate tires to proper pressure. Refer to tire sidewall.

For further technical support:

Technical Service

Mon – Fri 8:30 AM – 5:00 PM (PST/PDT)

Toll Free: 1-877-338-0999

tech@championpowerequipment.com

WARRANTY

CHAMPION POWER EQUIPMENT 1-YEAR LIMITED WARRANTY

Warranty Qualifications

Champion Power Equipment (CPE) will register this warranty upon receipt of your Warranty Registration Card and a copy of your sales receipt from one of CPE's retail locations as proof of purchase.

Please submit your warranty registration and your proof of purchase within ten (10) days of the date of purchase.

Repair/Replacement Warranty

CPE warrants to the original purchaser that the mechanical and electrical components will be free of defects in material and workmanship for a period of one (1) year from the original date of purchase (90 days for commercial and industrial use). Transportation charges on product submitted for repair or replacement under this warranty are the sole responsibility of the purchaser. This warranty only applies to the original purchaser and is not transferable.

Do Not Return The Unit To The Place Of Purchase

Contact CPE's Technical Service and CPE will troubleshoot any issue via phone or e-mail. If the problem is not corrected by this method, CPE will, at its option, authorize evaluation, repair or replacement of the defective part or component at a CPE Service Centre. CPE will provide you with a case number for warranty service. Please keep it for future reference. Repairs or replacements without prior authorization, or at an unauthorized repair facility, will not be covered by this warranty.

Warranty Exclusions

This warranty does not cover the following repairs and equipment:

Normal Wear

Log Splitter needs periodic parts and service to perform well. This warranty does not cover repair when normal use has exhausted the life of a part or the equipment as a whole.

Installation, Use and Maintenance

This warranty will not apply to parts and/or labour if this log splitter is deemed to have been misused, neglected, involved in an accident, abused, loaded beyond its limits, modified, and installed improperly. Normal maintenance such as spark plugs, air filters, adjustments, fuel system cleaning and obstruction due to buildup is not covered by this warranty.

Other Exclusions

This warranty excludes:

- Cosmetic defects such as paint, decals, etc.
- Wear items such as filter elements, o-rings, etc.
- Accessory parts such as starting batteries, and storage covers.
- Failures to due acts of God and other force majeure events beyond the manufacturer's control.
- Problems caused by parts that are not original Champion Power Equipment parts.

Limits of Implied Warranty and Consequential Damage

Champion Power Equipment disclaims any obligation to cover any loss of time, use of this product, freight, or any incidental or consequential claim by anyone from using this log splitter. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

A unit provided as an exchange will be subject to the warranty of the original unit. The length of the warranty governing the exchanged unit will remain calculated by reference to the purchase date of the original unit.

This warranty gives you certain legal rights which may change from state to state or province to province. Your state or province may also have other rights you may be entitled to that are not listed within this warranty.

Contact Information

Address

Champion Power Equipment, Inc.
Customer Service
10006 Santa Fe Springs Rd.
Santa Fe Springs, CA 90670
www.championpowerequipment.com

Customer Service

Mon – Fri 8:30 AM – 5:00 PM (PST/PDT)
Toll Free: 1-877-338-0999
Fax no.: 1-562-236-9429

Technical Service

Mon – Fri 8:30 AM – 5:00 PM (PST/PDT)
Toll Free: 1-877-338-0999
tech@championpowerequipment.com

**Champion Power Equipment, Inc. (CPE),
The California Air Resources Board (CARB) and the United States Environment Protection Agency (U.S. EPA.)
Emission Control System Warranty**

Your Champion Power Equipment (CPE) engine complies with both the U.S. EPA and state of California Air Resources Board (CARB) emission regulations.

YOUR WARRANTY RIGHTS AND OBLIGATIONS:

The California Air Resources Board, US EPA AND CPE are pleased to explain the Federal and California Emission Control Systems Warranty on your 2012 small off-road engine and engine powered equipment. In California, new, small off-road engines and new equipment that use small off-engines must be designed, built and equipped to meet the State's stringent anti smog standards. In the other states, new engines and equipment must be designed, built and equipped, at the time of sale, to meet U.S. EPA regulations for small non-road engines. CPE warrants the emission control system on your small off-road engine and equipment for the period of time listed below, provided there has been no abuse, neglect, unapproved modification, or improper maintenance of your equipment.

Your emission control system may include parts such as the carburetor, fuel-injection system, the ignition system, catalytic converter and fuel lines. Also included may be hoses, belts, connectors and other emission related assemblies. Where a warrantable condition exists, CPE will repair your small off-road engine at no cost to you including diagnosis, parts and labor. For engines less than or equal to 80cc, only the fuel tank and fuel line is subject to the evaporative emission control warranty requirements of this section.

MANUFACTURER'S EMISSION CONTROL SYSTEM WARRANTY COVERAGE:

This emission control system is warranted for two years, subject to provisions set forth below. If, during the warranty period, emission related part on your engine is defective in materials or workmanship, the part will be repaired or replaced by CPE.

OWNER WARRANTY RESPONSIBILITIES:

As the small off-road engine owner, you are responsible for the performance of the required maintenance listed in your Owner's Manual. CPE recommends that you retain all your receipts covering maintenance on your small off-road engine, but CPE cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

As the small off-road engine owner, you should however be aware that CPE may deny you warranty coverage if your small, off-road engine or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

You are responsible for presenting your small off-road engine to an Authorized CPE service outlet or alternate service outlet as described in (3)(f.) below, CPE dealer or CPE, Santa Fe Springs, Ca. as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

If you have any questions regarding your warranty rights and responsibilities, you should contact:

Champion Power Equipment, Inc.
Customer Service
10006 Santa Fe Springs Road
Santa Fe Springs, CA 90670
1-877-338-0999

EMISSION CONTROL SYSTEM WARRANTY

The following are specific provisions relative to your Emission Control System Warranty Coverage.

1. APPLICABILITY: This warranty shall apply to 1995 and later model year California small off-road engines (for other states, 1997 and later model year engines). The ECS Warranty Period shall begin on the date the new engine or equipment is delivered to its original, end-use purchaser, and shall continue for 24 consecutive months thereafter.

2. GENERAL EMISSIONS WARRANTY COVERAGE

CPE warrants to the original, end-use purchaser of the new engine or equipment and to each subsequent purchaser that each of its small off-road engines is:

a. Designed, built and equipped so as to conform with all applicable regulations adopted by the Air Resources Board pursuant to its authority in Chapters 1 and 2, Part 5, Division 26 of the Health and Safety Code, and

b. Free from defects in materials and workmanship that cause the failure of a warranted part to be identical in all material respects to the part as described in the engine manufacturer's application for certification for a period of two years.

3. THE WARRANTY ON EMISSION-RELATED PARTS WILL BE INTERPRETED AS FOLLOWS:

a. Any warranted part that is not scheduled for replacement as required maintenance in the Owners Manual shall be warranted for the ECS Warranty Period. If any such part fails during the ECS Warranty Period, it shall be repaired or replaced by CPE according to Subsection "d" below. Any such part repaired or replaced under the ECS Warranty shall be warranted for any remainder of the ECS Warranty Period.

b. Any warranted, emissions-related part which is scheduled only for regular inspection as specified in the Owners Manual shall be warranted for the ECS Warranty Period. A statement in such written instructions to the effect of "repair or replace as necessary", shall not reduce the ECS Warranty Period. Any such part repaired or replaced under the ECS Warranty shall be warranted for the remainder of the ECS Warranty Period.

c. Any warranted, emissions-related part which is scheduled for replacement as required maintenance in the Owner's Manual shall be warranted for the period of time prior to the first scheduled replacement point for that part. If the part fails prior to the first scheduled replacement, the part shall be repaired or replaced by CPE according to Subsection "d" below. Any such emissions-related part repaired or replaced under the ECS Warranty, shall be warranted for the remainder of the ECS Warranty Period prior to the first scheduled replacement point for such emissions-related part.

d. Repair or replacement of any warranted, emissions-related part under this ECS Warranty shall be performed at no charge to the owner at a CPE Authorized Service Outlet.

e. The owner shall not be charged for diagnostic labor which leads to the determination that a part covered by the ECS Warranty is in fact defective, provided that such diagnostic work is performed at a CPE Authorized Service Outlet.

f. CPE shall pay for covered emissions warranty repairs at non-authorized service outlets under the following circumstances:

i. The service is required in a population center with a population over 100,000 according to U.S. Census 2000 without a CPE Authorized Service Outlet AND

ii. The service is required more than 100 miles from a CPE Authorized Service Outlet. The 100 mile limitation does not apply in the following states: Alaska, Arizona, Colorado, Hawaii, Idaho, Montana, Nebraska, Nevada, New Mexico, Oregon, Texas, Utah and Wyoming.

g. CPE shall be liable for damages to other original engine components or approved modifications proximately caused by a failure under warranty of an emission-related part covered by the ECS Warranty.

h. Throughout the ECS Warranty Period, CPE shall maintain a supply of warranted emission-related parts sufficient to meet the expected demand for such emission-related parts.

i. Any CPE Authorized and approved emission-related replacement part may be used in the performance of any ECS Warranty maintenance or repair and will be provided without charge to the owner. Such use shall not reduce CPE's warranty obligation.

j. Unapproved add-on or modified parts may not be used to modify or repair a CPE engine. Such use voids this ECS Warranty and shall be sufficient grounds for disallowing an ECS Warranty claim. CPE shall not be liable hereunder for failures of any warranted parts of a CPE engine caused by the use of such an unapproved add-on or modified part.

EMISSION-RELATED PARTS INCLUDE THE FOLLOWING: (using those portions of the list applicable to the engine)

Systems covered by this warranty	Parts Description
Fuel Metering System	Fuel regulator, Carburetor and internal parts
Air Induction System	Air cleaner, Intake manifold
Ignition System	Spark plug and parts, Magneto ignition system
Exhaust System	Exhaust manifold, catalytic converter
Miscellaneous Parts	Tubing, Fittings, Seals, Gaskets, and Clamps associated with these listed systems.
Evaporative Emissions	Fuel Tank, Fuel Cap, Fuel Line, Fuel Line Fittings, Clamps, Pressure Relief Valves, Control Valves, Control Solenoids, Electronic Controls, Vacuum Control Diaphragms, Control Cables, Control Linkages, Purge Valves, Vapor Hoses, Liquid/Vapor Separator, Carbon Canister, Canister Mounting Brackets, Carburetor Purge Port Connector

TO OBTAIN WARRANTY SERVICE:

You must take your CPE engine or the product on which it is installed, along with your warranty registration card or other proof of original purchase date, at your expense, to any Champion Power Equipment dealer who is authorized by Champion Power Equipment, Inc. to sell and service that CPE product during his normal business hours. Alternate service locations defined in Section (3)(f.) above must be approved by CPE prior to service. Claims for repair or adjustment found to be caused solely by defects in material or workmanship will not be denied because the engine was not properly maintained and used.

If you have any questions regarding your warranty rights and responsibilities, or to obtain warranty service, please write or call Customer Service at Champion Power Equipment, Inc.

**Champion Power Equipment, Inc.
10006 Santa Fe Springs Road
Santa Fe Springs, CA 90670
1-877-338-0999
Attn.: Customer Service**