

# Owner's Manual

## M11571GNEA

ITEM NUMBER: 11571GNE

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

### Instructions for Assembly, Testing, Operation, Servicing, & Storage

**Log Splitter: Outdoor hydraulic powered machine that  
splits wood logs.**

#### **WARNING**

**READ and UNDERSTAND this manual completely before using log splitter.**

All operators of this equipment must read and completely understand all safety information, operating instructions, maintenance and storage instructions. Failure to properly operate and maintain the log splitter could result in serious injury to the operator or bystanders from moving parts that can crush or cut, flying objects, burns, fire or explosion, escaping high pressure hydraulic fluid, or carbon monoxide poisoning. In particular, be aware of the following hazards:

##### Crush and Cut Hazards

Moving parts can crush and cut hands and fingers. Keep hands clear of endplates, wedge, and logs while splitting.

##### High Pressure Hydraulic Fluid Hazards

High fluid pressures and temperatures are developed in hydraulic log splitters. Hydraulic fluid escaping through even a pin-size hold opening 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.

##### Fire Hazards

- If your log splitter is intended for use near any ignitable forest, brush, or grassy covered land, the engine exhaust should be equipped with a spark arrestor.
- Keep a fire extinguisher with you, rated for ordinary combustibles and flammable liquids.

#### **STOP!**

**ASSEMBLY REQUIRED:** This product requires assembly before use. See "Assembly" section for instructions.

**INSPECT COMPONENTS.** Closely inspect upon receipt to make sure no components are missing or damaged. See "Assembly" section for instructions on whom to contact to report missing or damaged parts.

**ADD ENGINE OIL and HYDRAULIC OIL BEFORE USING:** This product is shipped without engine oil or hydraulic oil. DO NOT start log splitter before adding both oils. See "Assembly" and "Initial Unpacking & Set-up" sections for detailed instructions.

**Any Questions, Comments, Problems or Parts Orders**  
***Call Product Support 1-866-443-2576***

## Hazard Signal Word Definitions






|   |   |
|---|---|
|    | <p>This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.</p> |
|    | <p>DANGER (red) indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.</p>  |
|    | <p>WARNING (orange) indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.</p>   |
|    | <p>CAUTION (yellow) indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.</p>  |
|  | <p>CAUTION (yellow) used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.</p>                            |

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# About Your Log Splitter

Thank you for purchasing your log splitter!

## About Your Log Splitter

This log splitter is a machine designed to split wood logs using a hydraulically powered moving wedge. The gasoline-powered engine is used to pressurize the system.

This log splitter model is capable of splitting logs up to 24" long and 16" in diameter

This log splitter is designed to split logs *lengthwise with the grain* only.

This log splitter model is designed with a *unique, timesaving feature* -- a double-edged cutting wedge that is capable of splitting wood on both the extension and retraction strokes of the wedge.

The technical specifications for your log splitter are provided in the "Specifications" section of this manual.



### **WARNING**

This log splitter uses a high-pressure hydraulic system to generate a very strong splitting force. **Read the manual completely** before using the machine to understand how to safely operate and maintain it.

Follow all safety precautions presented throughout this manual. A summary of important safety information can be found at the end of the manual.

**Contact Product Support at 1-866-443-2576 for any questions about the appropriate use of this log splitter and/or optional accessories.**

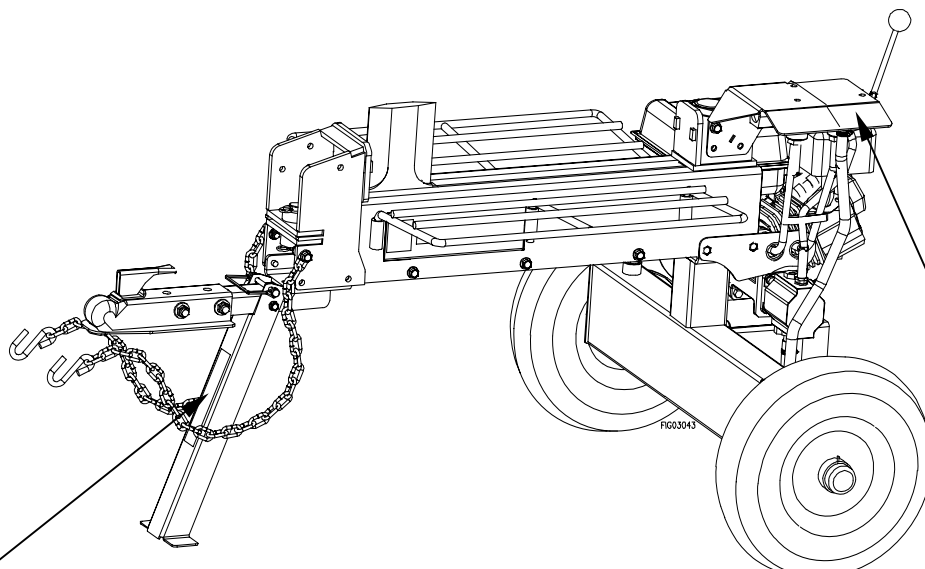
## Warranty Registration:

Please fill out and submit the warranty registration card so that we may have your contact information for any future product literature or replacement parts you may need.

**Attention: All Rental Companies and Private Owners who  
loan this equipment to others!**

*All persons to whom you rent/loan the log splitter must have access to and read this manual.* Keep this owner's manual with the splitter at all times and advise all persons who will operate the machine to read it. You must also provide personal instruction on how to safely operate the splitter and available to answer any questions a renter/borrower might have.

# Safety Label Location



## MOVING/TOWING INSTRUCTIONS

### Moving log splitter by hand:

- Put support leg in UP position.
- Do not attempt to move log splitter up or down slope by hand.

### Towing log splitter:

- Put support leg in the UP position.
- Latch coupler securely to class 2 or higher hitch with 2" ball.
- Attach safety chains to tow vehicle.
- Close fuel shut-off valve on engine (if equipped).
- Do not tow faster than 45 mph. Higher speeds can cause loss of control.
- Check local, state, and federal requirements before towing on public roads.

PN 780187  
FIG02937

## ⚠ DANGER

Using a log splitter indoors **CAN KILL YOU IN MINUTES**.  
Log splitter exhaust contains carbon monoxide.  
This is a poison you cannot see or smell.



Avoid other log splitter hazards.  
READ MANUAL BEFORE USE.

## ⚠ WARNING

- Moving parts can crush and cut.
- Pieces can fly out while splitting.
- Follow safety rules for operating the log splitter or serious injury could result.
- READ the Owner's Manual completely before operating.
- Only one person should operate the log splitter. If an assistant is helping to load logs, the operator should not actuate controls until the assistant is at least 10 ft away.
- Stay in the designated OPERATOR POSITION while actuating the controls.
- Split wood in direction of the grain only.
- Hold back side of logs when loading.
- Keep hands away from wedge, endplates, and partly split logs.
- Never leave log splitter unattended during operation.
- Stay off slopes and slippery surfaces.
- See additional safety rules in the Owner's Manual.

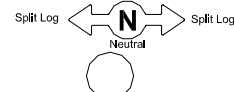
## FIRE HAZARD

- Hot exhaust can ignite dry brush, trees, or grass.
- Keep a fire extinguisher on hand that is rated for ordinary combustibles and flammable liquids.
- Equip engine with a spark arrestor if you will be using near ignitable forest, brush or grassy covered land.

## ESCAPING HIGH PRESSURE HYDRAULIC FLUID HAZARD

- High fluid pressures and temperatures are developed in the hydraulic system.
- Hydraulic fluid escaping through even a pin-size hole opening can puncture skin and cause blood poisoning.
- Inspect hydraulic system regularly for leaks.
- Never check for leaks with your hand while system is pressurized.
- Seek medical attention immediately if injured by escaping fluid.

## SPLIT CONTROL LEVER OPERATION



## IF LOG BECOMES STUCK ON WEDGE

A log can become stuck to the wedge if the wedge becomes embedded in the log and the log doesn't split and separate. This can happen if the log is too stringy or tough to split completely.

If this happens **NEVER** attempt to remove a stuck log by:

- Using the hydraulic force of the splitter
- Modifying the splitter
- Adding attachments to the splitter

Personal injury could result from log or metal pieces flying out at high speed toward the operator or bystanders, or the splitter could become damaged.

## ALWAYS remove the log MANUALLY using this procedure:

1. Retract wedge just enough to remove pressure between the log and endplate.
2. Turn engine OFF.
3. Remove stuck log from wedge manually with a pry bar or sledgehammer.
4. Do not attempt to resplit a stuck log once it has been removed from wedge.

## OPERATING INSTRUCTIONS

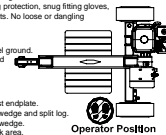
- Stay in the OPERATOR POSITION while actuating controls.
- Never actuate controls until the helper is 10 ft away from log splitter, including any helpers assisting to load logs.
- Wear eye protection, hearing protection, snug fitting gloves, & safety shoes or heavy boots. No loose or dangling apparel.

## SETTING UP

- Place log splitter on dry, level ground.
- Secure splitter for unintended movement.
- Start engine.

## SPLITTING LOG

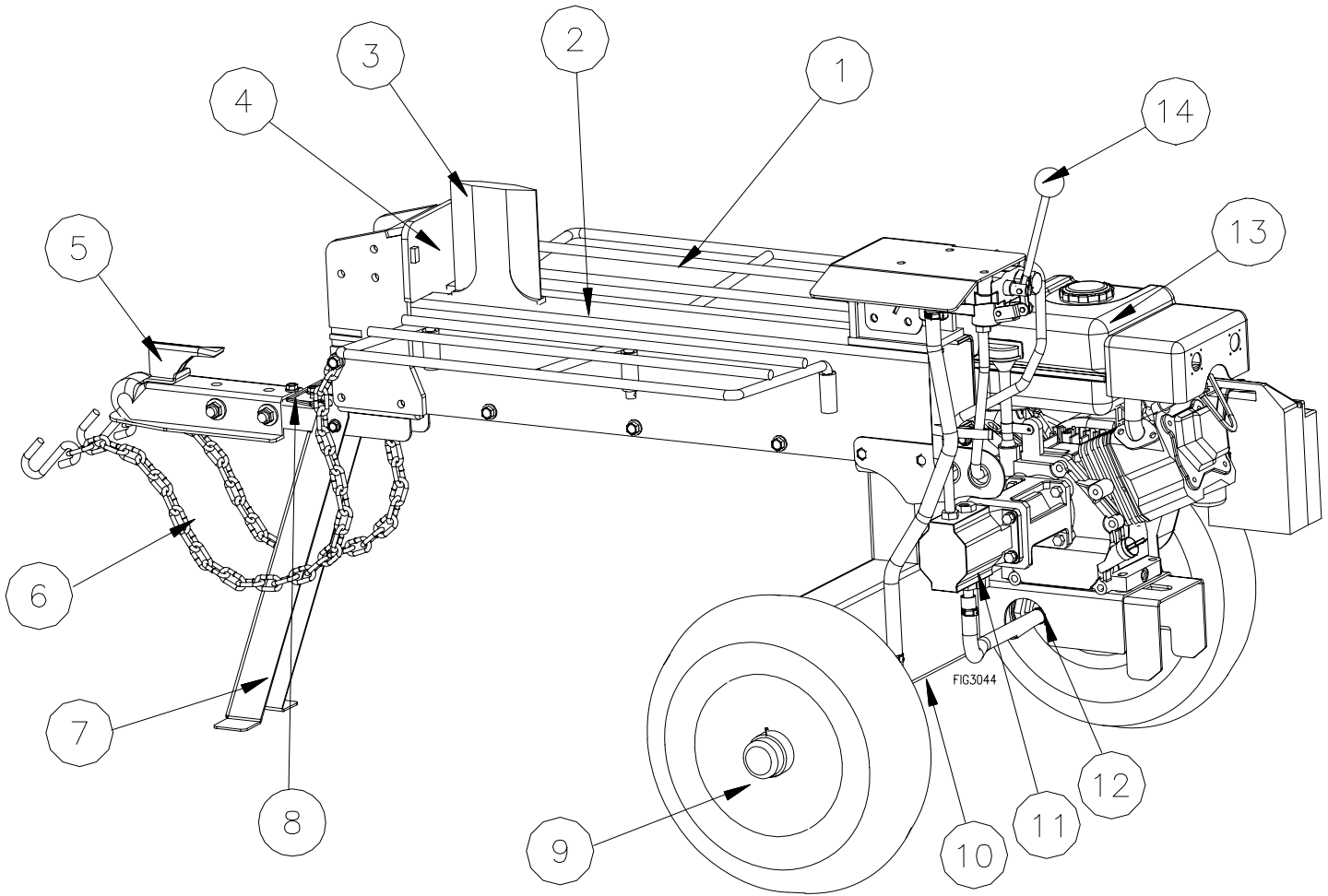
- Position log on beam, against endplate.
- Move split control to extend wedge and split log.
- Release split control to stop wedge.
- Remove split wood from work area.



| Part # | Description                           |
|--------|---------------------------------------|
| 781831 | Splitter Warning / Instructions Decal |
| 780187 | Moving/Towing Decal                   |

Always make sure safety labels are in place and in good condition. If a safety label is missing or not legible, order new labels or unsafe operation could result.

# Machine Components Identification



- 1.) **Log Table.** This large log table keeps the log from falling on the ground after splitting. The log table will keep the log on the beam without operator assistance.
- 2.) **Beam/Cylinder.** The hydraulic cylinder has a 4" bore and a 24" stroke, depending on model.
- 3.) **Wedge.** The wedge has two tapered edges that allow splitting in both directions. The wedge features a taper that makes splitting easier.
- 4.) **End Plate.** The end plate keeps the log from moving as the wedge moves through the log.
- 5.) **2" Coupler.** Allows the trailer unit to be hooked up to a 2" ball hitch.
- 6.) **Safety Chains.** Secures trailer to vehicle in case of accidental disconnection of ball and coupler.
- 7.) **Leg.** The leg supports the log splitter while operating. The leg should be raised while towing (see Operation Instructions).
- 8.) **Lock.** The locking pin locks the log to prevent unintended movement.
- 9.) **Tires.** The tires on this log splitter are for high speed towing (max 45mph).
- 10.) **Hydraulic Tank.** The hydraulic tank stores the hydraulic oil.
- 11.) **Hydraulic Pump.** The hydraulic pump makes the hydraulic oil flow through the system.
- 12.) **Suction Strainer.** The suction strainer removes debris from the hydraulic oil before entering the pump.
- 13.) **Engine.** The air-cooled engine powers the hydraulic pump.
- 14.) **Splitter Control Lever.** Use the split control lever to move the wedge forward and backward.

# Initial Set-up



## WARNING

Carefully read and follow all instructions for initial assembly and set-up of this log splitter.

Failure to properly assemble and set up this equipment could result in serious injury to the user or bystanders, or cause equipment damage.

|   |   |
|---|---|
| <b>Step One:</b><br><b>Assemble log splitter</b>            | <b>Assemble your log splitter.</b><br>See the “Assembly” section of this manual – It will provide you with detailed instructions on: <ul style="list-style-type: none"> <li>• Inspecting shipped components and whom to contact if anything is missing or damaged.</li> <li>• Assembly.</li> <li>• Testing.</li> </ul>  |
| <b>Step Two:</b><br><b>Add oil to engine</b>                | <b>Add oil to engine.</b><br>Using a funnel, add SAE 10W-30 oil up to the FULL mark on the dipstick. (See engine Owner’s Manual for oil capacity and location of fill cap.)   |
| <b>Step Three:</b><br><b>Add Hydraulic Oil to Reservoir</b> | <ol style="list-style-type: none"> <li>1. Remove hydraulic oil dipstick.</li> <li>2. Refer to the <b>Specifications</b> section for approximate hydraulic oil capacity.</li> <li>3. Fill reservoir with 10 wt AW32, ASLE H-150, or ISO 32 oil. Use a funnel</li> <li>4. Replace hydraulic oil dipstick and check that oil level reads full.</li> <li>5. Start engine and use split control lever to extend and retract wedge 5 (five) times to remove air from the high pressure lines.</li> <li>6. With wedge retracted, check oil level again. Fill if necessary.</li> </ol> <p><b>Note:</b> If the log splitter will be run for long periods of time in outdoor temperatures above 70°F, we recommend changing the hydraulic oil to DEXTRON III.</p>   |
| <b>Step Four:</b><br><b>Check Hydraulic system</b>          | <b>Check the hydraulic system carefully:</b> <ol style="list-style-type: none"> <li>1. Visually inspect all hoses, tubing, clamps/fittings, pump, and cylinder for cracks, fraying, kinks, or other damage.</li> <li>2. Check all components for oily residue, which may indicate a leak.</li> </ol> <p>Do NOT operate the log splitter if there is any indication of damage or oily residue. Small leaks in hydraulic lines can cause severe injuries and can also be an indication of catastrophic failure in the near future. The life of hydraulic hoses may be from a few months to a few years, depending on use and storage patterns.</p> <p><b>⚠️ WARNING:</b> High fluid pressures and temperatures are developed in hydraulic log splitters. Hydraulic fluid escaping through a pin hole sized opening can burn or puncture skin, resulting in wounds that could cause blood poisoning, infection, disability, gangrene, amputation, or death. Therefore, the following instructions should be heeded at all times when inspecting or servicing the hydraulic components of the log splitter:</p> <ul style="list-style-type: none"> <li>• Stop the engine, disconnect the spark plug, and move the split control lever back and forth to relieve pressure before changing or adjusting hydraulic system components such as hoses, tubing, fittings or other components.</li> </ul> |

## Initial Set-up

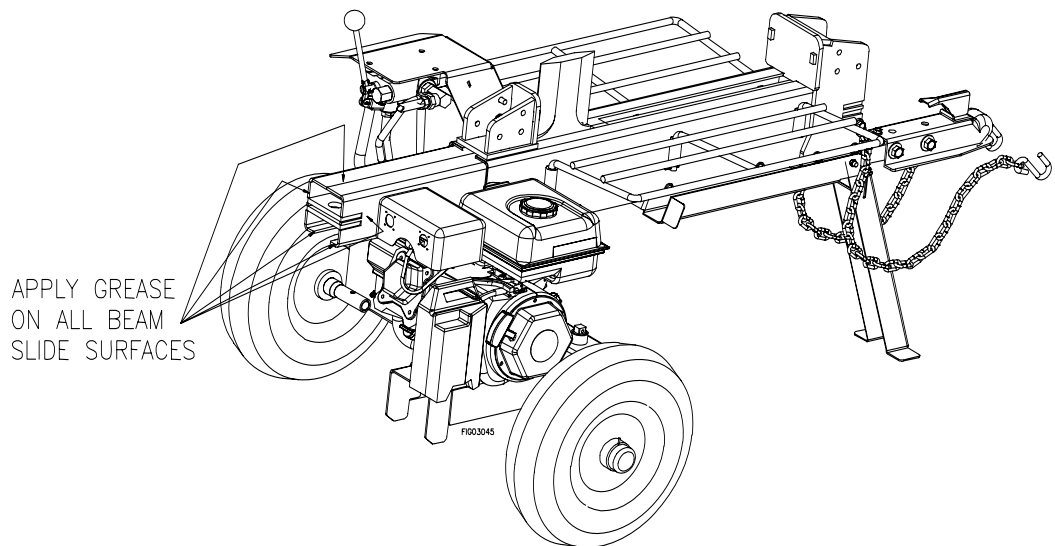
- NEVER check for leaks with your hand. Leaks can be located by holding a piece of cardboard or wood (at least two feet long) with your hand at one end and passing the other end over the suspected area (wear eye protection). Look for discoloration of the cardboard or wood.
- NEVER adjust the pressure setting of the pump or valve.
- If injured by escaping fluid, no matter how small the wound is, see a doctor at once. A typical injection injury may be a small puncture wound that does not look serious. However, severe infection or reaction can result if proper medical treatment is not administered immediately by a doctor who is familiar with injection injuries.

**⚠ WARNING:** NEVER remove the hydraulic oil fill cap when the engine is running or hot. Hot oil can escape causing severe burns. Allow log splitter to cool completely before removing hydraulic oil fill cap.

### Step Five: Lubricate slide rail beam

#### Lubricate wedge slide.

Extend the wedge slide as shown, and lubricate the surface of it with grease. This will help prevent wear between the wedge slide and beam.



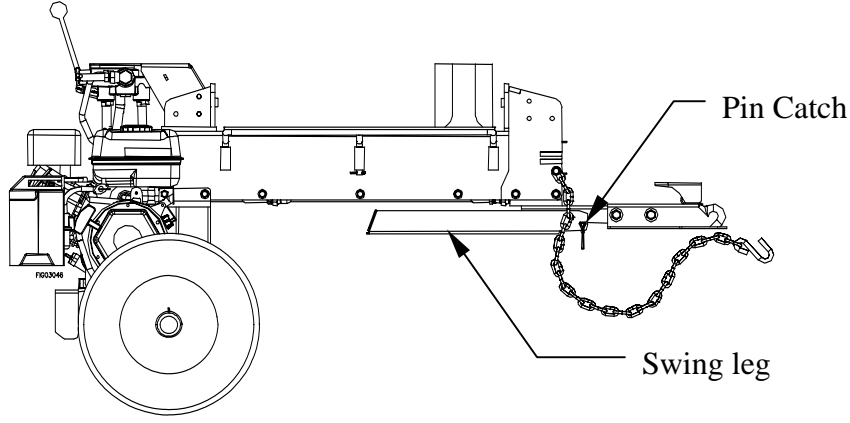


# Moving & Towing to Job Site


## **WARNING**

The log splitter is heavy. It can crush and cause serious injury if it rolls out of control or tips over. Follow the instructions below for safely moving and towing the log splitter.

### **Moving the log splitter:**

|  |  |
|--|--|
| 1. Engine off                                  | <b>IMPORTANT: Ensure log splitter engine is off.</b><br>Never move the log splitter with its engine running  |
| 2. Fuel valve off                              | <b>Turn fuel valve off</b> to prevent carburetor flooding and reduce the chance of fuel leakage.   |
| 3. Swing leg UP                                | <b>Lock the leg in the “UP” position before you move the log splitter anywhere by hand.</b>  <p>The diagram shows a side view of the log splitter. A chain is attached to the swing leg and is locked in the up position by a pin catch. Labels point to the 'Pin Catch' and the 'Swing leg'.</p>   |
| 4. Move log splitter to work site or tow hitch | <b>Move log splitter by hand either directly to chosen work site or to tow hitch for towing.</b><br>(See “Before Each Use” section on selecting a work site)<br><br><u>Important Safety Instructions:</u> <ul style="list-style-type: none"> <li>• <b>Hills.</b> Do not move the log splitter up or down hills by hand - use a towing vehicle.</li> <li>• <b>No riding.</b> Never allow anyone to sit or ride on the log splitter.</li> <li>• <b>No cargo.</b> Never transport cargo or wood on the log splitter.</li> </ul> |

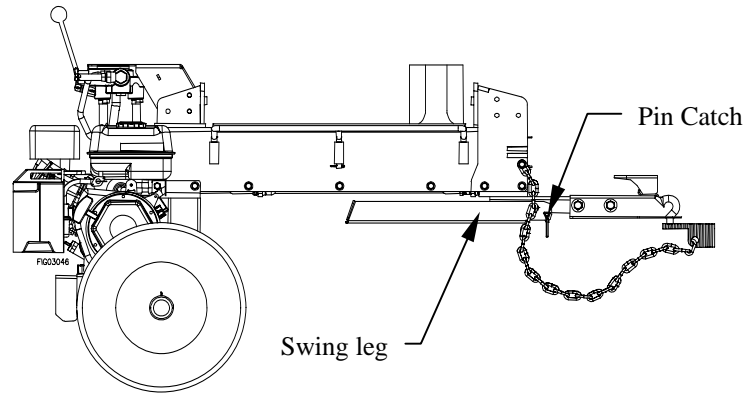
### **Towing:**

|                      |   |
|----------------------|---|
| 1. Read instructions | <b>Review towing safety instructions in your vehicle manual.</b>  |
| 2. Check tires       | <b>Make sure tires are fully inflated and in good repair.</b><br>See tire sidewall for recommended tire pressure.<br><br> <b>WARNING:</b> <ul style="list-style-type: none"> <li>• Do not over-inflate tires. Serious injury can occur if tire explodes.</li> <li>• When seating a bead after repair, do not exceed 30 PSI. Pressures higher than 30 PSI can cause the tire and wheel to rupture and explode.</li> </ul> |

# Moving & Towing to Job Site

## 3. Swing leg UP

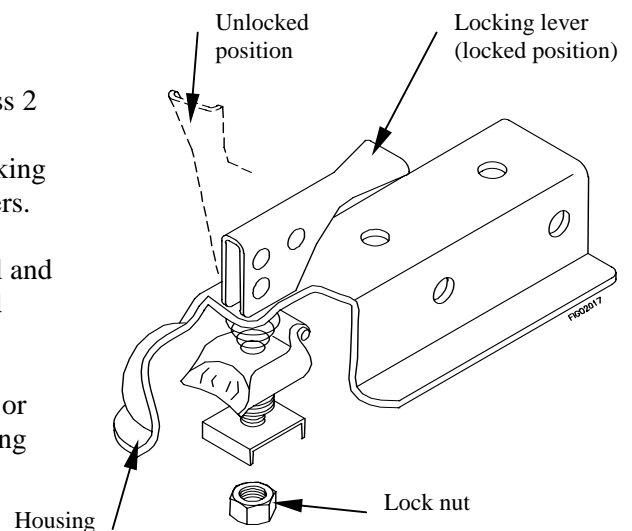
Lock the leg in the “UP” position before you move the log splitter anywhere by hand.



## 4. Attach to hitch (2” ball)

**Attach Log Splitter to vehicle hitch.**

1. Attach log splitter’s coupler to a class 2 or higher hitch with 2” ball (only).
2. Adjust coupler to ball by raising locking lever and turning lock nut with fingers.
3. Proper adjustment is obtained when coupler is as tight as possible on ball and locking lever can still be opened and closed.
4. Lock lever closed to secure the attachment. An optional locking pin or padlock may be inserted in the locking lever hole for extra security.



## 5. Attach safety chains

**Attach safety chains.**

1. Two safety chains must be used while towing.
2. Cross safety chains under the coupler allowing only enough slack for vehicle turns.

## 6. Tow to desired location

**Tow log splitter carefully to desired work site.**

(See “Before Each Use” section on selecting an appropriate work site.)

### Important safety instructions:

- **Speed limit.** Never tow this log splitter over 45 mph. Faster speeds may result in loss of control.
- **Added length.** Be aware of the added length of the splitter.
- **Rough terrain.** Drive slowly and take extra caution when traveling over rough terrain.
- **On public roads.** If towing on a public road, make sure to comply with all local, state, and federal towing requirements. It is the sole responsibility of the purchaser to obtain licensing, trailer lights, safety chains or signage, as needed to comply.
- **Unattended.** Turn off the towing vehicle before leaving the splitter unattended.
- **Under the influence.** Never tow or operate this splitter while under the influence of alcohol, drugs, or medication.

## 7. Lock leg down & unhitch

**Lock tow bar leg in the DOWN position and unhitch from vehicle.**

NEVER operate log splitter while it is attached to the vehicle.

# Before Each Use – Inspection / Maintenance

## **Step One: Inspect and maintain log splitter before each use.**

If the log splitter has been used previously, it must be inspected and maintained BEFORE EACH SUBSEQUENT USE.

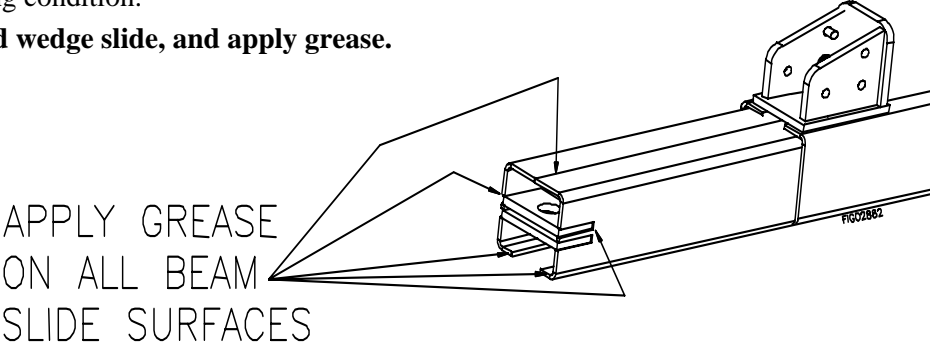


### **WARNING**

ALWAYS shut off the engine, disconnect the spark plug, and relieve system pressure before inspecting, cleaning, adjusting, or repairing the splitter. Relieve system pressure by moving the split control lever back and forth several times.

### **Important:**

If a part needs replacement, only use parts that meet the manufacturer's specifications. Replacement parts that do not meet specifications may result in a safety hazard or poor operation of the log splitter.

|   |   |
|---|---|
| <b>1. Engine off / relieve hydraulic pressure</b> | <b>Perform all inspections/repairs with the engine off and hydraulic system pressure relieved.</b> <ol style="list-style-type: none"> <li>1. Make sure engine is off and cool.</li> <li>2. Disconnect the spark plug</li> <li>3. Relieve all hydraulic system pressure by moving the split control lever back and forth several times.</li> </ol>   |
| <b>2. Remove debris</b>                           | <b>Remove debris from engine, muffler, and moving parts.</b> <ol style="list-style-type: none"> <li>1. <u>Engine debris.</u> Debris on a hot engine can be a fire hazard. Clean debris and chaff from engine cylinder head, cylinder head fins, blower housing rotating screen, and muffler areas. Avoid contact with hot muffler.</li> <li>2. <u>Other debris.</u> Debris on moving parts can cause excess wear. Clear debris from the beam, wedge, and end plates.</li> </ol> |
| <b>3. Fuel tank / lines</b>                       | <b>Check fuel tank and fuel lines for leaks.</b><br>Any fuel leak is a fire hazard. Fix any fuel leaks before starting engine.  |
| <b>4. Mechanical parts</b>                        | <b>Check to be sure all nuts and bolts are tight</b> to make sure the log splitter is in safe working condition.<br><b>Extend wedge slide, and apply grease.</b> <div style="text-align: center;">  <p>APPLY GREASE<br/>ON ALL BEAM<br/>SLIDE SURFACES</p> </div>   |
| <b>5. Hydraulic system</b>                        | <b>Check the hydraulic system carefully:</b> <ol style="list-style-type: none"> <li>1. Visually inspect all hoses, tubing, clamps/fittings, pump, and cylinder for cracks, fraying, kinks, or other damage.</li> <li>2. Check all components for oily residue, which may indicate a leak.</li> </ol>  |

## Before Each Use – Inspection / Maintenance

|                           |  |
|---------------------------|--|
|                           | <p>Do NOT operate the log splitter if there is any indication of damage or oily residue. Small leaks in hydraulic lines can cause severe injuries and can also be an indication of catastrophic failure in the near future. The life of hydraulic hoses may be from a few months to a few years, depending on use and storage patterns.</p> <p><b>⚠️ WARNING:</b> High fluid pressures and temperatures are developed in hydraulic log splitters. Hydraulic fluid escaping through a pin hole sized opening can burn or puncture skin, resulting in wounds that could cause blood poisoning, infection, disability, gangrene, amputation, or death. Therefore, the following instructions should be heeded at all times when inspecting or servicing the hydraulic components of the log splitter:</p> <ul style="list-style-type: none"> <li>• Stop the engine, disconnect the spark plug, and move the split control lever back and forth to relieve pressure before changing or adjusting hydraulic system components such as hoses, tubing, fittings or other components.</li> <li>• NEVER check for leaks with your hand. Leaks can be located by holding a piece of cardboard or wood (at least two feet long) with your hand at one end and passing the other end over the suspected area (wear eye protection). Look for discoloration of the cardboard or wood.</li> <li>• NEVER adjust the pressure setting of the pump or valve.</li> <li>• If injured by escaping fluid, no matter how small the wound is, see a doctor at once. A typical injection injury may be a small puncture wound that does not look serious. However, severe infection or reaction can result if proper medical treatment is not administered immediately by a doctor who is familiar with injection injuries.</li> </ul> |
| 6. Hydraulic oil level    | <p><b>Check dipstick to make sure hydraulic oil level is to the fill line with cylinder retracted.</b> Fill as needed.</p> <p><u>Note:</u> Fill the tank with 10 wt AW32, ASLE H-150, or ISO 32 hydraulic oil. If the log splitter will be run for long periods of time in outdoor temperatures above 70°F, we recommend changing the hydraulic oil to DEXTRON III.</p> <p><b>⚠️ WARNING:</b> NEVER remove the hydraulic oil fill cap when the engine is running or hot. Hot oil can escape causing severe burns. Allow log splitter to cool completely before removing hydraulic oil fill cap.</p>  |
| 7. Engine                 | <b>Inspect and perform engine maintenance as directed in the engine manual.</b>  |
| 8. Spark arrestor muffler | If the engine is equipped with a spark arrestor muffler, clean and inspect it regularly (follow spark arrestor manufacturer's service instructions). Replace if damaged.   |
| 9. Tires                  | <p><b>Make sure tires are fully inflated and in good repair if you will be towing the splitter.</b></p> <p>See tire sidewall for recommended tire pressure.</p> <p><b>⚠️ WARNING:</b></p> <ul style="list-style-type: none"> <li>• Do not over-inflate tires. Serious injury can occur if tire explodes.</li> <li>• When seating a bead after repair, do not exceed 30 PSI. Pressures higher than 30 PSI can cause the tire and wheel to rupture and explode.</li> </ul>   |
| 10. Shields / guards      | <b>Replace all guards and shields after servicing the log splitter.</b>  |



# Before Each Use – Fueling

## Step Two: Fueling



### WARNING

Gasoline is highly flammable and explosive. You can be burned or seriously injured when handling fuel. Use extreme care when handling gasoline.

|                      |  |
|----------------------|--|
| 1. Engine off / cool | <p><b>The engine must be off and allowed to cool at least two minutes before adding fuel.</b></p> <p> <b>WARNING:</b> A running engine is hot enough to ignite fuel. Never add fuel or remove gas cap if engine is running or still hot.</p>  |
| 2. Outdoor location  | <p><b>Fill fuel tank outdoors – never indoors.</b></p> <p> <b>WARNING:</b> Gasoline vapors can ignite if they collect inside an enclosure. Explosion can result.</p>  |
| 3. Remove gas cap    | <b>Remove engine gas cap.</b>  |
| 4. Add gasoline      | <p><b>Add gasoline through fill opening from an UL-approved container.</b></p> <p><b><u>Important Safety Instructions:</u></b></p> <ul style="list-style-type: none"> <li>• <b>Use approved container.</b> NEVER pump fuel directly into engine at gas station. Static charge can build and ignite fuel. Use a UL approved fuel container to transfer gas to the engine.</li> <li>• <b>Don't overfill.</b> DO NOT overfill the gas tank. Allow at least 1/2" of empty space below the fill neck to allow for fuel expansion</li> <li>• <b>Heat / flames / sparks.</b> Stay away from sources of heat, flame, or sparks while adding fuel.</li> </ul> |
| 5. Spills / splashes | <p><b>Clean up fuel spills /splashes immediately.</b></p> <ol style="list-style-type: none"> <li>1. Move log splitter away from spilled fuel on the ground.</li> <li>2. Wipe fuel off engine and wait 5 minutes for excess fuel to evaporate before starting engine.</li> <li>3. Gas soaked rags are flammable and should be disposed of properly.</li> <li>4. If gasoline is spilled on your skin or clothes, change clothes and wash skin immediately.</li> </ol>  |
| 6. Replace gas cap   | <b>Replace gas cap securely before starting engine.</b>  |
| 7. Gasoline storage  | <b>Store extra gasoline in a cool, dry place in an UL approved, tightly sealed container.</b>  |

# Before Each Use – Work Site Selection & Set-Up

## Step Three: Work site selection and log splitter set-up



### WARNING

It is important to select an appropriate work site and properly set up the log splitter in order to minimize the risk of slips and falls, equipment rolling or tipping over, carbon monoxide poisoning, and accidental fires.

#### 1. Select location

**Select an appropriate location for operating the log splitter.**

Requirements:

1. Dry, level surface with good footing. Stay clear of areas with mud, ice, tall grass, weeds, or brush.
2. Outdoors, away from air intakes.



**DANGER:** The running engine gives off carbon monoxide, a poisonous gas that can kill you. You CANNOT smell it, see it, or taste it.

- ONLY run log splitter OUTDOORS and away from air intakes. NEVER run log splitter inside homes, garages, sheds, or other buildings or semi-enclosed spaces. These spaces can trap poisonous gases, EVEN if you run a fan or open windows.
- If you start to feel sick, dizzy, or weak while using the log splitter, shut off the engine and get to fresh air RIGHT AWAY. See a doctor. You may have carbon monoxide poisoning.

#### 2. Fire precautions

**Take the following precautions against fire:**

1. **IMPORTANT:** If your splitter will be used near any unimproved forest, brush, or grassy covered land, *then engine must be equipped with a spark arrestor.*
2. Make sure you comply with applicable local, state and federal codes.
3. Keep a fire extinguisher available (classified for both ordinary combustibles & flammable liquids) as a precautionary measure when operating the log splitter in dry areas.

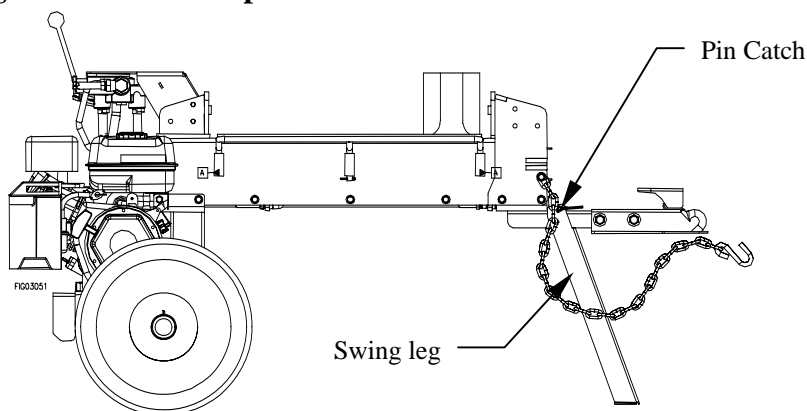
#### 3. Position 7' from any combustibles or flammable liquids

**Position splitter at least 7 ft. from combustible objects during operation.**

Hot exhaust fumes from splitter engine could cause fire. Also, hydraulic oil leaking or spraying on hot engine can ignite.

#### 4. Lock leg down

**Lock leg in the “DOWN” position.**



#### 5. Block Wheels

**Block wheels to prevent unintended movement of the log splitter.**

# Splitting Operation



## WARNING

Before starting the log splitter, review the following instructions and safety information for safe operation. Failure to follow these rules may result in serious injury to the operator or bystanders from moving parts that crush, cut, or entangle; from flying objects, burns, fire, falling or tripping; or from carbon monoxide poisoning.

### General safety information

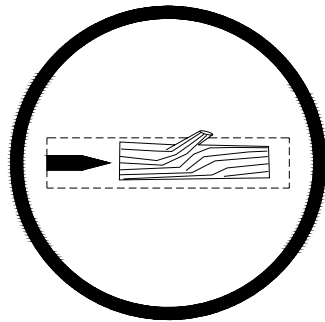
- **Read manual.** Do not allow anyone to operate the log splitter who has not read the Owner's Manual or has not been instructed on the safe use of the splitter. The log splitter owner should instruct all operators in safe log splitter operation.
- **Age restrictions.** Never allow anyone under 16 years old to operate the log splitter. Children 16 years and older must be trained and supervised by a trained adult.
- **Intended use.** Log splitters should only be used for splitting wood logs, lengthwise with the grain. Do not use for other purposes as unforeseen hazards may result.
- **Modifications.** Never modify or alter the log splitter in any way. Modifications can create serious safety hazards and will void the warranty:
  - **Attachments.** Never add attachments to the splitter, except for authorized accessories supplied by the manufacturer with instructions for safe installation and use.
  - **Engine speed.** The maximum engine speed is preset at a safe limit. Never attempt to modify the engine speed setting to run at a higher speed.
  - **Fuel/exhaust system.** NEVER modify or add to the exhaust system, fuel tanks, or fuel lines. Fire can result.
  - **Remote control.** NEVER attach a rope, cable, or other remote device to the splitting control.
  - **Splitting wedge.** NEVER attempt to change the height or speed of the splitting wedge.
  - **Pressure setting.** NEVER increase the pressure setting of the pump or control valve.
- **Safety equipment / controls.** Always operate the log splitter with all safety equipment in place and in good working order, and all controls properly adjusted for safe operation.
- **Know how to stop.** Be thoroughly familiar with all controls and with the proper use of the equipment. Know how to stop the log splitter and relieve system pressures quickly if needed.
- **Operating speed.** Always operate the log splitter at the manufacturer's recommended speed. The maximum speed of the engine, pump and wedge are preset within safe limits.
- **Daylight only.** Only use the log splitter in daylight so you can see what you are doing.
- **Smoking / sparks.** Never smoke while operating the log splitter, and never operate near sources of sparks or flames.
- **Under the influence.** Never operate, or let anyone else operate, the log splitter while under the influence of alcohol, drugs, or medication.
- **Unattended.** Never leave the machine unattended while the engine is running.
- **Refueling.** Never refuel the engine until it has cooled at least two minutes.
- **Adjusting / repairing.** Always make sure the engine is off before cleaning, repairing or adjusting the splitter, except as recommended by the manufacturer. In addition, disconnect the spark plug and move all control handles back and forth to relieve system pressure *before changing or adjusting hydraulic system components* such as hoses, tubing, fittings or other components.
- **Replace labels.** Always make sure safety labels are in place and in good condition. If a safety label is missing or not legible, order new labels because unsafe operation can result. Call 1-866-443-2576 to order new safety labels.

# Splitting Operation

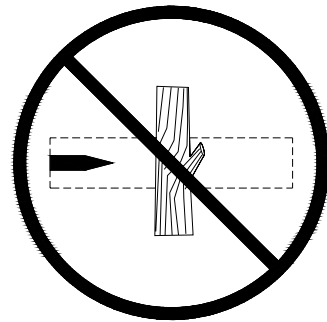
|   |   |
|---|---|
| <b>1. Put on protective clothing / gear</b> | <p><b>Wear the following protective clothing and safety gear.</b></p> <ol style="list-style-type: none"> <li>1) <b>Eye protection.</b> Always wear safety glasses or goggles when operating the machine. Pieces of log may fly out and serious eye injury can occur</li> <li>2) <b>Boots.</b> Falling logs can crush feet. Always wear safety shoes or heavy boots when operating or helping to load logs.</li> <li>3) <b>Gloves.</b> Wear snug fitting gloves without drawstrings or loose cuffs.</li> <li>4) <b>Hearing protection.</b> The use of earplugs or other hearing protection device is recommended. Applications</li> <li>5) <b>No Loose / dangling apparel.</b> Loose or dangling apparel can become entangled in moving parts. Never wear jewelry or loose-fitting clothing</li> </ol>   |
| <b>2. Lock &amp; block</b>                  | <p><b>Secure log splitter from unintended movement. Check that:</b></p> <ol style="list-style-type: none"> <li>1) The tow bar leg is locked in the DOWN position.</li> <li>2) The wheels are blocked.</li> </ol>  |
| <b>3. Start engine</b>                      | <p><b>Start the engine.</b><br/>See the engine owner's manual for engine starting instructions.</p> <p>Note:</p> <ol style="list-style-type: none"> <li>a) Make sure the hydraulic oil is above 10°F before starting the engine. Cold hydraulic oil can damage the hydraulic pump.</li> <li>b) If outdoor air temperature is below 32°F, allow log splitter to warm up by extending and returning the wedge several times before splitting wood.</li> </ol> <p><b>⚠ WARNING:</b></p> <p><b>Burns.</b> To avoid burns, stay clear of hot muffler if you are starting a warm engine.</p> <p><b>Carbon monoxide.</b> The running engine gives off carbon monoxide, a poisonous gas that can kill you. You CANNOT smell it, see it, or taste it. If you start to feel sick, dizzy, or weak while using the log splitter, shut off the engine and get to fresh air RIGHT AWAY. See a doctor. You may have carbon monoxide poisoning.</p> <p><b>Other exhaust dangers.</b> Engine exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. Avoid inhalation of exhaust.</p> |
| <b>4. Load log</b>                          | <p><b>Load log onto beam between the wedge and an endplate, cut edge against the endplate - positioned for a lengthwise cut.</b></p> <p><u>Notes:</u></p> <ol style="list-style-type: none"> <li>a) This log splitter is equipped with a unique double-edged cutting wedge, which is capable of splitting wood on either the extension or retraction stroke of the wedge.</li> <li>b) The log splitter is designed <u>only</u> for cutting lengthwise with the grain, NOT for cutting across the grain.</li> <li>c) This log splitter is designed for cutting logs only up to 24" long and 16" in diameter, lengthwise with the grain only. Larger diameter logs could get stuck on the wedge and longer logs will not fit on the beam.</li> </ol>  |



# Splitting Operation



**Correct**  
**Log Orientation**



**Incorrect**  
**Log Orientation**

**⚠ WARNING:** ALWAYS keep hands and feet away from the wedge and partially split logs while loading, operating and unloading the log splitter.

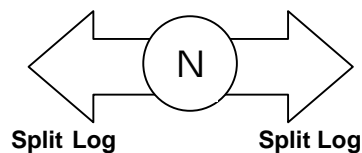
**Important safety instructions:**

- **Hold bark side.** Hold the bark side of logs when loading or positioning, never the ends. Never place your hands or any part of your body between a log and any part of the log splitter.
- **Wedge moving.** NEVER load or unload logs while the wedge is moving.
- **Straddling / reaching across.** Never straddle, reach across, or step over the beam while the engine is running. You could trip, actuate the controls, and get seriously injured.
- **Unsplit log pile.** Do not pile logs to be split in a place that will make you reach across the log splitter in order to load them.
- **Square log ends.** Logs that are not cut square can slide out while splitting and become a safety hazard or cause excessive force to log splitter components. Use a chainsaw to cut logs square on each end before attempting to split them.
- **Single log.** Never attempt to split more than one log at a time. Pieces of log can unexpectedly be thrown from the machine causing serious injury.
- **Split along grain.** Do not use the log splitter to split logs across the grain. Doing so will damage the log splitter and could also cause pieces of log to be thrown, injuring the operator or bystanders

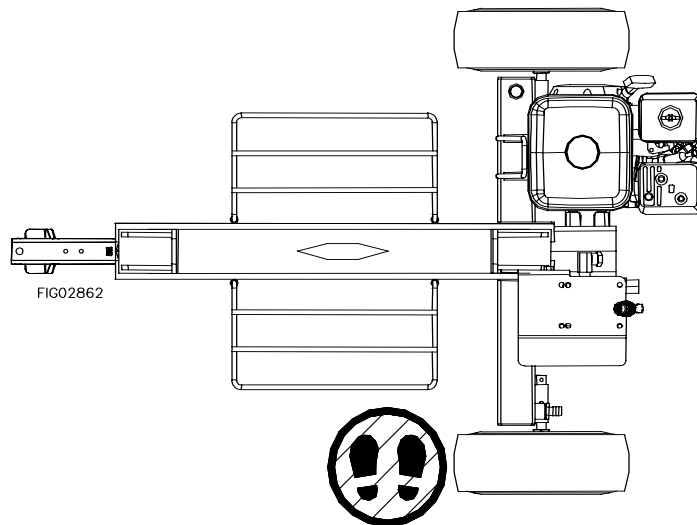
## 5. Extend wedge

Move Split Control Lever toward the end plate to move the wedge and split the log.

### ***SPLIT CONTROL***



# Splitting Operation



## Operator Position

### Important safety instructions:

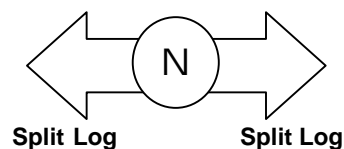
- **Operator position.** ALWAYS operate the log splitter from the manufacturer's indicated OPERATOR POSITION. (See diagram above.) Other positions are unsafe because they can increase the risk of injury from crushing, cutting, flying objects, or burns.
- **Remove hands.** Remove both hands from log before activating the split control lever.
- **Hand activate.** Use only your hand to operate the Split Control Lever. Never use any other body part, or a rope, cable, or other remote device to actuate the control.
- **Second person.** Many accidents occur when there is more than one person involved in loading and operating the log splitter. Only one person should operate the controls. *If a second person is assisting in loading logs, the operator must NEVER actuate the split control lever until the assistant and all bystanders are at least 10 feet away. NEVER allow an assistant to hold the log in place while the operator actuates the Split Control Lever.*

## 6. Stop wedge

**Release Split Control Lever to stop wedge movement when log is split.**

**⚠ WARNING:** Cracks in logs can close quickly and pinch fingers. Keep fingers away from any cracks that open in partially split logs.

### **SPLIT CONTROL**



# Splitting Operation

|  |   |
|--|---|
| <p><b>7. Important STUCK LOG procedure</b></p> | <p><b>If a log does not split completely and becomes stuck on the wedge, follow the instructions below to remove the log.</b></p> <p>A log can become stuck to the wedge if the wedge becomes embedded in the log and the log doesn't split and separate. This can happen if the log is too stringy or tough to split completely.</p> <p>If this happens, follow the directions below.</p> <p><b>⚠ WARNING: NEVER</b> attempt to remove a stuck log by:</p> <ul style="list-style-type: none"> <li>• Using the hydraulic force of the splitter</li> <li>• Modifying the splitter</li> <li>• Adding attachments to the splitter</li> </ul> <p>Personal injury could result from log or metal pieces flying out at high speed toward the operator or bystanders, or the splitter could become damaged.</p> <ol style="list-style-type: none"> <li>1. Remove pressure from log by moving wedge away from the endplate.</li> <li>2. Turn engine OFF.</li> <li>3. Remove stuck log from the wedge <b>manually</b> with a pry bar or a sledgehammer.<br/> <u>Important:</u> Be extremely careful as log pieces may fly off as they separate from the wedge. Make sure bystanders are clear and wear safety goggles.</li> <li>4. Do not attempt to resplit a stuck log once it has been removed from the wedge.<br/> Manually split with an axe or cut with a chainsaw.</li> </ol> |
| <p><b>8. Remove split wood</b></p>             | <p><b>Move each log away from log splitter after it is split.</b> Split logs left near the log splitter are a trip hazard.</p>  |
| <p><b>9. After use</b></p>                     | <ol style="list-style-type: none"> <li>1. Turn off engine.</li> <li>2. Remove engine debris.<br/> Debris on a hot engine can be a fire hazard. After the engine is off, clean debris and chaff from engine cylinder head, cylinder head fins, blower housing rotating screen, and muffler areas.</li> </ol> <p><b>⚠ WARNING:</b> Avoid contact with hot muffler.</p>  |

**Any Questions, Comments, Problems or Parts Orders**  
***Call Product Support 1-866-443-2576***

# Storage



## WARNING

Gasoline vapors can ignite and cause a fire. Select a well-ventilated storage area away from sources of heat, flame, or sparks.

Follow the instructions below for storing your log splitter between uses:

|                              |   |
|------------------------------|---|
| 1. Retract cylinder          | Retract the wedge completely to the hitch end of the log splitter to keep the rod protected from corrosion.   |
| 2. Cool                      | <p>Allow the machine to cool 5 minutes before storing.</p> <p> <b>WARNING:</b> A hot engine can be a fire hazard.</p>   |
| 3. Wipe with oily rag        | Wipe the wedge with an oily rag to prevent corrosion.   |
| 4. Engine manual             | <p>Refer to the engine manual for proper engine storage instructions.</p> <p><b>CAUTION:</b> Gasoline will oxidize and deteriorate in storage. Old gasoline in the engine will cause hard starting and leave gum deposits that can clog the fuel system. Deterioration problems may occur within a few months, or even less if gasoline was not fresh when you filled the fuel tank.</p> <p><b>Short-Term Storage:</b></p> <ol style="list-style-type: none"> <li>1. Consider adding a fuel stabilizer to extend fuel storage life.</li> <li>2. Leave the fuel valve lever in the OFF position to reduce the possibility of fuel leakage.</li> </ol> <p><b>Long Term Storage:</b> (between infrequent uses and at end of season)<br/>Drain the fuel tank and carburetor as instructed in the engine owner's manual.</p> <p><u>Important Safety Instructions:</u></p> <ul style="list-style-type: none"> <li>• Always drain fuel from tank in outdoor, well-ventilated area.</li> <li>• Stay away from sources of heat, flame, or sparks while handling fuel.</li> <li>• Clean up fuel spills/splashes immediately.</li> </ul> |
| 5. Splitter storage location | <p>Store the log splitter in a location away from corrosive material, sources of heat, open flames, sparks or pilot lights.</p> <p> <b>WARNING:</b> Never store log splitter inside where there is a source of heat or an open flame, spark, or pilot light – such as water heaters, space heaters, furnaces, clothes dryers, or other gas appliances. Even if the log splitter's gas tank is empty, residual gasoline vapors could ignite.</p> <p><b>NOTE:</b> Do not store the log splitter near fertilizer or any other corrosive material.</p>  |
| 6. Gasoline storage          | <p>Store gasoline in a cool, dry place in an UL approved, tightly sealed container.</p> <p> <b>WARNING:</b> Gasoline vapors can ignite if they collect inside an enclosure and explosion can result.</p>  |

# Periodic Maintenance

In addition to the maintenance performed with each use, periodic maintenance should also be performed according to the following schedule.



## WARNING

ALWAYS shut off the engine, disconnect the spark plug, and relieve system pressure before cleaning, adjusting, or repairing the splitter. Relieve system pressure by moving Split Control Lever back and forth several times.

### **IMPORTANT:**

If a part needs replacement, only use parts that meet the manufacturer's specifications. Replacement parts that do not meet specifications may result in a safety hazard or poor operation of the log splitter

|                                  |  |
|----------------------------------|--|
| <b>1. Engine Maintenance</b>     | <b>Perform engine maintenance as specified in the engine owner's manual.</b>   |
| <b>2. Hydraulic oil change</b>   | <p><b>Change hydraulic oil annually / 100 hours.</b></p> <p><b>⚠️ WARNING:</b> High fluid pressures and temperatures are developed in hydraulic log splitters. Hydraulic fluid escaping through a pin hole sized opening can burn or puncture skin, resulting in wounds that could cause blood poisoning, infection, disability, gangrene, amputation, or death. Therefore, the following instructions should be heeded at all times when inspecting or servicing the hydraulic components of the log splitter:</p> <ul style="list-style-type: none"> <li>○ NEVER check for leaks with your hand. Leaks can be located by holding a piece of cardboard or wood (at least two feet long) with your hand at one end and passing the other end over the suspected area (wear eye protection). Look for discoloration of the cardboard or wood.</li> <li>○ NEVER adjust the pressure setting of the pump or valve.</li> <li>○ If injured by escaping fluid, no matter how small the wound is, see a doctor at once. A typical injection injury may be a small puncture wound that does not look serious. However, severe infection or reaction can result if proper medical treatment is not administered immediately by a doctor who is familiar with injection injuries.</li> </ul> <ol style="list-style-type: none"> <li>1. Use 10 wt AW32, ASLE H-150, or ISO32 oil.</li> <li>2. Relieve hydraulic system pressure by moving the split control lever back and forth several times.</li> <li>3. Remove hydraulic oil fill cap. <ul style="list-style-type: none"> <li><b>⚠️ WARNING:</b> NEVER remove the hydraulic oil fill cap when the engine is running or hot. Hot oil can escape causing severe burns. Allow log splitter to cool completely before removing hydraulic oil fill cap.</li> </ul> </li> <li>4. Remove the suction hose from the hydraulic tank to drain the hydraulic oil.</li> <li>5. Fill with the specified quantity</li> <li>6. Replace dipstick and check that oil level reads full (before starting engine and checking oil level again).</li> <li>7. Dispose of used oil at an oil-recycling center. Used hydraulic oil is hazardous waste.</li> </ol> |
| <b>3. Spark arrestor muffler</b> | If the engine is equipped with a spark arrestor muffler, clean and inspect it regularly (follow manufacturer's service instruction). Replace if damaged.   |

# Troubleshooting



## WARNING

Before troubleshooting or attempting to service, read the following safety instructions to avoid serious injury to the operator or bystanders from moving parts that can crush or cut, burns, fire or explosion, or escaping high pressure hydraulic fluid.

### Important Safety Instructions

1. **Engine off.** Always make sure the engine is off before cleaning, repairing or adjusting the splitter, except as recommended by the manufacturer.
2. **Hydraulic safety.** High fluid pressures and temperatures are developed in hydraulic log splitters. Hydraulic fluid escaping through a pin hole sized opening can burn or puncture skin, resulting in wounds that could cause blood poisoning, infection, disability, gangrene, amputation, or death. Therefore, the following instructions should be heeded at all times when inspecting or servicing the hydraulic components of the log splitter:
  - Stop the engine, disconnect the spark plug, and move split control lever back and forth to relieve pressure before changing or adjusting hydraulic system components such as hoses, tubing, fitting or other components.
  - Do not remove the hydraulic oil fill cap when the engine is running. Hot oil can escape causing severe burns. Allow log splitter to cool completely before removing hydraulic oil fill cap.
  - Do not adjust the pressure setting of the pump or valve.
  - NEVER check for leaks with your hand. Leaks can be located by holding a piece of cardboard or wood (at least two feet long) with your hand at one end and passing the other end over the suspected area (wear eye protection). Look for discoloration of the cardboard or wood.
  - If injured by escaping fluid, no matter how small the wound is, see a doctor at once. A typical injection injury may be a small puncture wound that does not look serious. However, severe infection or reaction can result if proper medical treatment is not administered immediately by a doctor who is familiar with injection injuries.

| Problem  |   |
|--|---|
| Cylinder rod will not move                             | Solution: A,D,E,H,J                           |
| Slow cylinder shaft speed when extending or retracting | Solution: A,B,C,H,I,K,L                       |
| Wood will not split or splits extremely slowly         | Solution: A,B,C,F,I,K                         |
| Engine bogs down during splitting                      | Solution: G                                   |
| Engine stalls under low load condition                 | Solution: D,E                                 |
| Cause  | Solution                                      |
| A - Insufficient oil to pump                           | Check oil level in reservoir                  |
| B - Air in oil   | Check oil level in reservoir                  |
| C - Excessive pump inlet vacuum                        | Check pump inlet hose for blockage or kinks   |
| D - Blocked hydraulic lines                            | Flush and clean the splitter hydraulic system |
| E - Blocked control valve                              | Flush and clean the splitter hydraulic system |
| F - Low control valve setting                          | Adjust control valve with a pressure gauge    |
| G - High control valve setting                         | Adjust control valve with a pressure gauge    |
| H - Damaged control valve                              | Return control valve for authorized repair    |
| I - Internal control valve leak                        | Return control valve for authorized repair    |
| J - Damaged cylinder piston                            | Return cylinder for authorized repair         |
| K - Internally damaged cylinder                        | Return cylinder for authorized repair         |
| L - Drawing air through suction line                   | Check and tighten hose clamps on suction hose |

**Any Questions, Comments, Problems or Parts Orders**

***Call Product Support 1-866-443-2576***

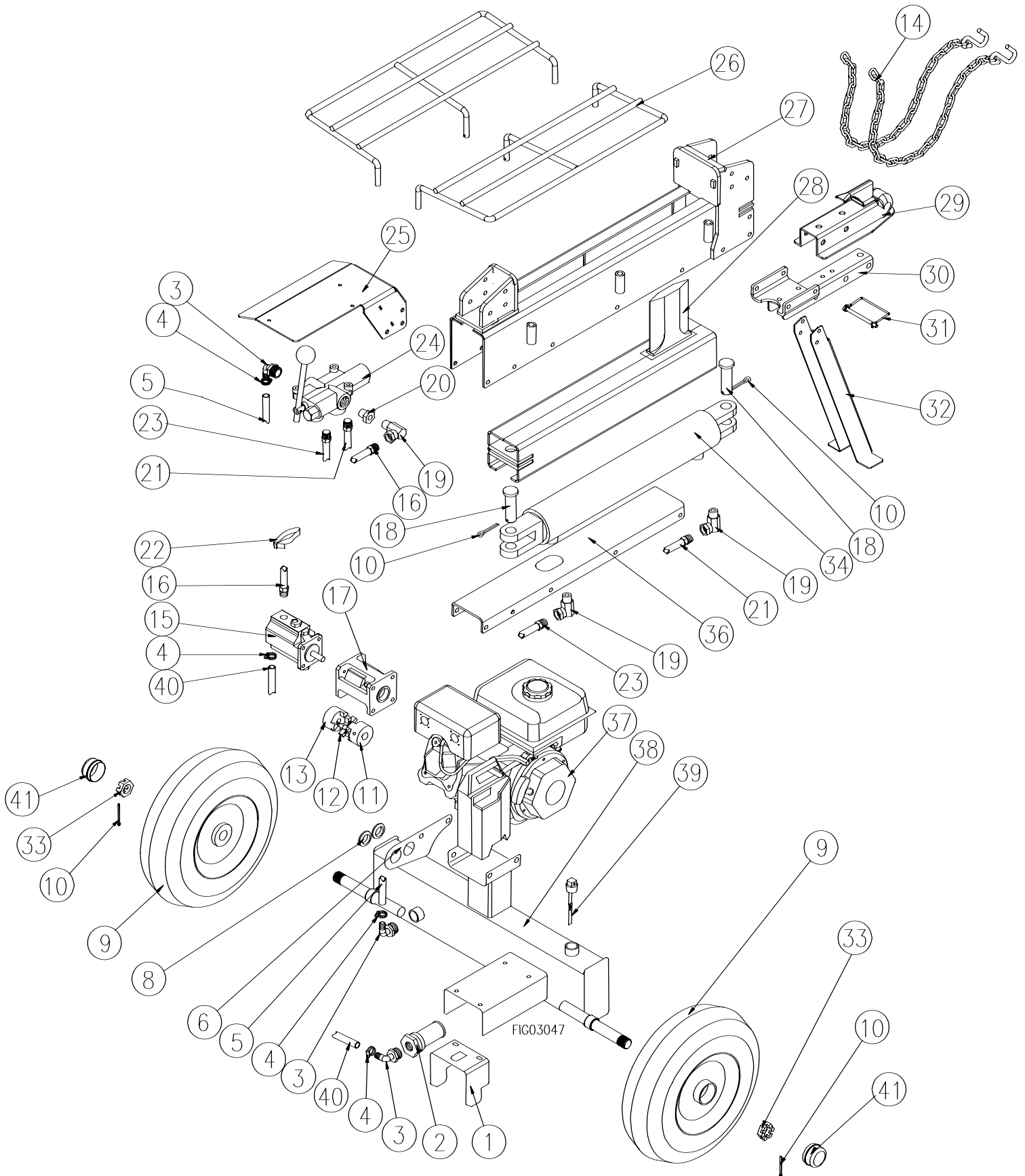
## Specifications

|                               |                                     |
|-------------------------------|-------------------------------------|
| Maximum Pressure .....        | 3000 PSI                            |
| Maximum Flow .....            | 11 GPM                              |
| Hydraulic Fluid Capacity....  | 3 Gallons                           |
| Hydraulic Fluid Type.....     | 10 wt AW32, ASLE H-150,<br>or ISO32 |
| Coupler Size.....             | 2"                                  |
| Maximum Towing Speed....      | 45 MPH                              |
| Maximum Log Length .....      | 24"                                 |
| Pressure Relief Setting ..... | 3000 PSI                            |
| Hydraulic Cylinder Bore ....  | 4"                                  |
| Hydraulic Cylinder Stroke ..  | 24"                                 |
| Spark Arrestor.....           | No                                  |
| Fuel Valve.....               | Yes                                 |
| Overall Dimensions .....      | 62"L x 39"W x 33"H                  |
| Dry Weight .....              | 360 lb                              |

**The manufacturer reserves the right to make improvements in design and/or changes in specifications at any time without incurring any obligation to install them on units previously sold.**

**Any Questions, Comments, Problems or Parts Orders**  
***Call Product Support 1-866-443-2576***

# Parts Breakdown – Exploded View – Rev A





## Parts Breakdown – Exploded View – Rev A

| Item | Part Number | Description               | Qty |
|------|-------------|---------------------------|-----|
| 1    | 780234      | Tip Bracket               | 1   |
| 2    | 4011        | 4" Suction Strainer       | 1   |
| 3    | 50NBR12     | Hose Barb Elbow           | 3   |
| 4    | 17141       | ¾" Hose Clamp             | 4   |
| 5    | 30289       | ¾" PVC Hose               | 22" |
| 6    | 783808      | Hose Guide                | 1   |
| 8    | 782400      | Grommet                   | 2   |
| 9    | 777799      | High Speed Tire           | 2   |
| 10   | 82140       | Cotter Pin                | 4   |
| 11   | 777910      | ¾" Coupling               | 1   |
| 12   | 777912      | Coupling Insert           | 1   |
| 13   | 777909      | ½" Coupling               | 1   |
| 14   | 1130        | Safety Chains             | 2   |
| 15   | 1012        | Hydraulic Pump            | 1   |
| 16   | 782431      | Pump Hose                 | 1   |
| 17   | 3030        | 4" Pump Bracket           | 1   |
| 18   | 406518      | Clevis Pin                | 2   |
| 19   | 50RAS8      | High Pressure Fitting     | 3   |
| 20   | 50CSC128    | Reducer Fitting           | 1   |
| 21   | 782432      | Long Cylinder Hose        | 1   |
| 22   | 82517       | Zip Tie                   | 1   |
| 23   | 782431      | Short Cylinder Hose       | 1   |
| 24   | 781825      | Control Valve             | 1   |
| 25   | 781824      | Valve Plate               | 1   |
| 26   | 780266      | Log Table                 | 2   |
| 27   | 783810      | Beam Assembly             | 1   |
| 28   | 779990      | Beam Slide                | 1   |
| 29   | 38587       | 2" Coupler                | 1   |
| 30   | 783809      | Tow Leg Channel           | 1   |
| 31   | 778498      | Pin Catch                 | 1   |
| 32   | 781991      | Swing Leg                 | 1   |
| 33   | 777124      | Slotted Jam Nut           | 2   |
| 34   | 782256      | 4"x24" Hydraulic Cylinder | 1   |
| 36   | 783807      | Bottom Plate              | 1   |
| 37   | GNE #       | 208cc Engine              | 1   |
| 38   | 783316      | Hydraulic Tank            | 1   |
| 39   | 780121      | Hydraulic Dipstick        | 1   |
| 40   | 781062      | ¾" Suction Hose           | 14" |
| 41   | 124A        | Dust Cap                  | 2   |

# Summary of Important Safety Information for Operation



## WARNING

Carefully read and make sure you understand the following safety information before using the log splitter.

Improper use or maintenance of the log splitter can result in serious injury to the operator or bystanders from moving parts that can crush or cut, flying objects, escaping high pressure hydraulic fluid, or carbon monoxide poisoning.

### Introduction

- **Read manual.** Read this Operator's Manual and the engine Owner's Manual completely before attempting to use the log splitter. Serious injury or death can result if safety instructions are not followed.
- **Instruct operators.** The log splitter owner should instruct all operators in safe log splitter operation.
- **Intended use.** Log splitters should only be used for splitting wood logs, lengthwise with the grain. Do not use for other purposes, as unforeseen hazards may result.

### Prohibition Against Modifications

Never modify or alter the log splitter in any way. Modifications can create serious safety hazards and will void the warranty.

- **Attachments.** Never add attachments to the splitter, except for authorized accessories supplied by the manufacturer with instructions for safe installation and use.
- **Engine speed.** The maximum engine speed is preset at a safe limit. Never attempt to modify the engine speed setting to run at a higher speed.
- **Fuel/exhaust system.** NEVER modify or add to the exhaust system, fuel tanks, or fuel lines. Fire can result.
- **Remote control.** NEVER attach a rope, cable, or other remote device to the splitting control.
- **Splitting wedge.** NEVER attempt to change the height or speed of the splitting wedge.
- **Pressure setting.** NEVER increase the pressure setting of the pump or control valve.

### Operator Restrictions

- **Untrained operators.** Do not allow anyone to operate the log splitter who has not read the Owner's Manual or been instructed on the safe use of the splitter.
- **Minimum operator age.** Never allow anyone under 16 years old to operate the log splitter. Children 16 years and older must be trained and supervised by a trained adult.

### Safety in Moving and Towing the Log Splitter



## WARNING

The log splitter is very heavy. It can crush and cause serious injury if it rolls out of control or tips over.

Follow the instructions below for safely moving and towing the log splitter.

### General Safety While Moving

- **Hills.** Do not move the log splitter up or down hills by hand -- use a towing vehicle.
- **Engine off.** Never move the log splitter with its engine running.
- **No riding.** Never allow anyone to sit or ride on the log splitter.
- **No cargo.** Never transport cargo or wood on the log splitter.

# Summary of Important Safety Information for Operation

## Safety During Towing

- **Read instructions.** Review towing safety instructions in your towing vehicle manual.
- **Securely attached.** Be sure the log splitter is securely attached to the towing vehicle before towing.
- **Tires.** Be sure tires are fully inflated and in good repair before towing the splitter. When adding air to tires, do not over-inflate -- serious injury could occur if tire explodes.
- **Added length.** Be aware of the added length of the splitter.
- **Speed limit.** Never tow this log splitter over **45** mph. Faster speeds may result in loss of control.
- **Rough terrain.** Be extra cautious and drive slowly when traveling over rough terrain.
- **Under the influence.** Never tow this splitter while under the influence of alcohol, drugs, or medication.
- **On public roads.** If towing on a public road, make sure to comply with all local, state, and federal towing requirements. It is the sole responsibility of the purchaser to obtain licensing, trailer lights, safety chains or signage, as needed to comply.
- **Unattended.** Turn off the towing vehicle before leaving the splitter unattended.
- **Disconnect before operate.** Do not use the log splitter while it is connected to the towing vehicle.

## Safety – Before Use

### Read/instruct

- **Read manual.** Do not allow anyone to operate the log splitter who has not read the Owner's Manual or has not been instructed on the safe use of the splitter.
- **Review safety rules.** Before starting this log splitter, review the instructions for safe operation. Failure to follow these instructions may result in serious injury to the operator or bystanders.
- **Know how to stop.** Be thoroughly familiar with all controls and with the proper use of the equipment. Know how to stop the log splitter and relieve system pressure quickly if needed.

## Personal protective equipment

- **Eye protection.** Always wear safety glasses or goggles when operating the machine. Pieces of log may fly out and serious eye injury can occur.
- **Boots.** Falling logs can crush feet. Always wear safety shoes or heavy boots when operating or helping to load logs.
- **Loose / dangling.** Loose or dangling apparel can become entangled in moving parts. Never wear jewelry or loose-fitting clothing.
- **Gloves.** Wear snug fitting gloves without drawstrings or loose cuffs.
- **Hearing protection.** The use of earplugs or other hearing protection device is recommended.

## Safety During Inspection/Maintenance

Always inspect your log splitter before each use, and repair as needed, to keep it in safe working condition:

- **Engine off.** Always make sure the engine is off before cleaning, repairing or adjusting the splitter, except as recommended by the manufacturer.
- **Engine debris.** Debris on a hot engine can be a fire hazard. With the engine off, clean debris and chaff from engine cylinder head, cylinder head fins, blower housing rotating screen, and muffler areas. Avoid contact with hot muffler.
- **Other debris.** Debris on moving parts can cause excess wear. With the splitter engine off, clear debris from moving parts.
- **Fuel tank / lines.** Before each use, check fuel tank and fuel lines for leaks. Any fuel leak is a fire hazard. Fix any fuel leaks before starting engine.
- **Mechanical parts.** Check to be sure all nuts and bolts are tight to make sure the log splitter is in safe working condition.
- **Hydraulic system.** Check the hydraulic system (hoses, tubing, clamps/fittings, pump, and cylinder) carefully before each use. Do not operate the log splitter with frayed, kinked, cracked or damaged hydraulic hoses, fittings, or tubing, or if oily residue is observed on any of the components. High fluid pressures and temperatures are developed in the log splitter. Hydraulic fluid escaping through a pin hole sized opening can burn or puncture skin, resulting in wounds that could cause blood poisoning, infection, disability, gangrene, amputation, or death.

# Summary of Important Safety Information for Operation

Therefore, the following instructions should be heeded at all times when inspecting or servicing the hydraulic components of the log splitter:

- Do not remove the hydraulic oil fill cap when the engine is running. Hot oil can escape causing severe burns. Allow log splitter to cool completely before removing hydraulic oil fill cap.
- Do not adjust the pressure setting of the pump or valve.
- Do not check for leaks with your hand. Leaks can be located by holding a piece of cardboard or wood (at least two feet long) with your hand at one end and passing the other end over the suspected area (wear eye protection). Look for discoloration of the cardboard or wood.
- Stop the engine, disconnect the spark plug, and move split control lever back and forth to relieve pressure before changing or adjusting hydraulic system components such as hoses, tubing, fittings or other components.
- If injured by escaping fluid, no matter how small the wound is, see a doctor at once. A typical injection injury may be a small puncture wound that does not look serious. However, severe infection or reaction can result if proper medical treatment is not administered immediately by a doctor who is familiar with injection injuries.
- **Spark arrestor muffler.** If the engine is equipped with a spark arrestor muffler, clean and inspect it regularly (follow manufacturer's service instructions). Replace if damaged.
- **Tires.** Be sure tires are fully inflated and in good repair before towing the splitter. When adding air to tires, do not over-inflate -- serious injury could occur if tire explodes.
- **Guards / shields.** Make sure all guards and shields are replaced after servicing the log splitter.
- **Replacement parts.** If a part needs replacement, only use parts that meet the manufacturer's specifications. Replacement parts that do not meet specifications may result in a safety hazard or poor operation of the log splitter.

## Safety During Fueling

Gasoline is highly flammable and explosive. You can be burned or seriously injured when handling fuel. Use extreme care when handling gasoline:

- **Fuel outdoors.** Fill fuel tank outdoors – never indoors. Gasoline vapors can ignite if they collect inside an enclosure. Explosion can result.
- **Use approved container.** Never pump fuel directly into engine at gas station. Static charge can build and ignite fuel. Use an UL approved fuel container to transfer gas to the engine.
- **Running / hot engine.** A running engine is hot enough to ignite fuel. Never add fuel or remove gas cap if engine is running or still hot. Stop the engine and allow it to cool, at least two minutes before adding fuel.
- **Heat / flames / sparks.** Stay away from sources of heat, flame, or sparks while adding fuel.
- **Don't overfill.** DO NOT overfill the gas tank. Allow at least 1/2" of empty space below the fill neck to allow for fuel expansion.
- **Replace cap.** Replace gas cap securely before starting engine.
- **Spills.** Clean up fuel spills immediately. Move log splitter away from spilled fuel on the ground. Wipe fuel off engine and wait 5 minutes for excess fuel to evaporate before starting engine. Gas soaked rags should be disposed of properly.
- **On skin / clothes.** If gasoline is spilled on your skin or clothes, change clothes and wash skin immediately.
- **Gasoline storage.** Store gasoline in a cool, dry place in an UL approved, tightly sealed container.

## Safety in Work Site Selection / Set-up

- **Spark arrestor.** If your splitter will be used near any unimproved forest, brush, or grassy covered land, then engine should be equipped with a spark arrestor. See the "Specifications" section of this manual to determine if your splitter already has a spark arrestor. Make sure you comply with applicable local, state and federal codes.
- **Hot exhaust.** Hot exhaust fumes from engine can cause fire. Position muffler at least 7' from combustible objects during operation.
- **Fire extinguisher.** Have a Class B fire extinguisher available as a precautionary measure when operating the log splitter in dry areas.
- **Level, dry surface.** To prevent accidental falls and equipment tip over, make sure the splitter is situated on a dry, level surface with good footing. Stay clear of areas with mud, ice, tall grass, weeds, or brush.

# Summary of Important Safety Information for Operation

- **Block wheels.** Always block the wheels to prevent unintended movement of the log splitter.
- **Carbon monoxide.** The running engine gives off carbon monoxide, a poisonous gas that can kill you. You CANNOT smell it, see it, or taste it. ONLY run log splitter OUTDOORS and away from air intakes. NEVER run log splitter inside homes, garages, sheds, or other semi-enclosed spaces. These spaces can trap poisonous gases, EVEN if you run a fan or open windows. If you start to feel sick, dizzy, or weak while using the log splitter, shut off the engine and get to fresh air RIGHT AWAY. See a doctor. You may have carbon monoxide poisoning.

## Safety – During Use General Safety During Use

**⚠ WARNING:** Before starting this log splitter, review the following rules for safe operation. Failure to follow these rules may result in serious injury to the operator or bystanders.

- **Safety equipment / controls.** Always operate the log splitter with all safety equipment in place and in good working order, and all controls properly adjusted for safe operation.
- **Operating speed.** Always operate the log splitter at the manufacturer's recommended speed. The maximum speed of the engine, pump and wedge are preset within safe limits.
- **Know how to stop.** Be thoroughly familiar with all controls and with the proper use of the equipment. Know how to stop the log splitter and relieve system pressures quickly if needed.
- **Daylight only.** Only use the log splitter in daylight so you can see what you are doing.
- **Smoking / sparks.** Never smoke while operating the log splitter, and never operate near sources of sparks or flames.
- **Hot muffler.** If you are starting a warm engine, stay clear of muffler. It may still be hot enough to burn you.
- **Unattended.** Never leave the machine unattended while the engine is running.
- **Under the influence.** Never operate, or let anyone else operate, the log splitter while under the influence of alcohol, drugs, or medication.
- **Adjusting repairing.** Always make sure the engine is off before cleaning, repairing or adjusting the splitter, except as recommended by the manufacturer. In addition, disconnect the spark plug and move all control handles back and forth to relieve system pressure *before changing or adjusting hydraulic system components* such as hoses, tubing, fittings or other components.
- **Carbon monoxide.** The running engine gives off carbon monoxide, a poisonous gas that can kill you. You CANNOT smell it, see it, or taste it. If you start to feel sick, dizzy, or weak while using the log splitter, shut off the engine and get to fresh air RIGHT AWAY. See a doctor. You may have carbon monoxide poisoning.
- **Other exhaust dangers.** Engine exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. Avoid inhalation of exhaust.

## Safety in Loading, Operating, and Unloading

- **Square log ends.** Logs that are not cut square can slide out while splitting and become a safety hazard or cause excessive force to log splitter components. Use a chainsaw to cut logs square on each end before attempting to split them.
- **Single log.** Never attempt to split more than one log at a time. Pieces of log can unexpectedly be thrown from the machine causing serious injury.
- **Split along grain.** Do not use the log splitter to split logs across the grain. Doing so will damage the log splitter and could also cause pieces of log to be thrown, injuring the operator or bystanders.
- **Keep hands clear.** ALWAYS keep hands and feet away from the end plate, wedge, and partially split logs while loading, operating and unloading the log splitter.
- **Operator position.** ALWAYS operate the log splitter from the manufacturer's indicated OPERATOR POSITION. Other positions are unsafe because they can increase the risk of injury from crushing, cutting, flying objects, or burns.
- **Straddling / reaching across.** Never straddle, reach across, or step over the beam while the splitter engine is running. You could trip, actuate the controls, and get seriously injured.
- **Second person.** Many accidents occur when there is more than one person involved in loading and operating the log splitter. Only one person should operate the controls. *If a second person is assisting in loading logs, the operator must NEVER actuate the Split Control Lever until the assistant and all bystanders are at least 10 feet away. NEVER allow an assistant to hold the log in place while the operator actuates the Split Control Lever.*

# Summary of Important Safety Information for Operation

## **Loading/Unloading**

- **Unsplit log pile.** Do not pile logs to be split in a place that will make you reach across the log splitter in order to load them.
- **Hold bark side.** Hold the bark side of logs when loading or positioning, never the ends. Never place your hands or any part of your body between a log and any part of the log splitter.
- **Wedge moving.** NEVER load or unload logs while the wedge is moving.
- **Cracks.** Cracks in logs can close quickly and pinch fingers. Keep fingers away from any cracks that open in partially split logs.
- **Split log pile.** Move each log away from log splitter after it is split. Split logs left near the log splitter are a trip hazard.
- **Remove hands.** Remove both hands from log before activating Split Control Lever.
- **Hand activate.** Use only your hand to operate the Split Control Lever. Never use any other body part, or a rope, cable, or other remote device to actuate the control.
- **Log stuck on wedge.** A log can become stuck to the wedge if the wedge becomes embedded in the log and the log doesn't split and separate. This can happen if the log is too stringy or tough to split completely. If this happens, follow the directions below to manually remove the log:
  - IMPORTANT:** NEVER attempt to remove a stuck log by using the hydraulic force of the splitter, or by modifying or adding attachments to splitter. Personal injury could result from log or metal pieces flying out at high speed toward the operator or bystanders, or the splitter could become damaged.
  - 1. Remove pressure from log by moving wedge away from the endplate.
  - 2. Turn engine OFF.
  - 3. Remove stuck log from the wedge **manually** with a pry bar or a sledgehammer. Be extremely careful, as log pieces may fly off as they separate from the wedge. Wear safety goggles and make sure bystanders are clear.
  - 4. Do not attempt to resplit a stuck log once it has been removed from the wedge.
- **Refueling.** Never refuel the engine until it has cooled at least two minutes.

## **Safety – After use**

- **Remove engine debris.** Debris on a hot engine can be a fire hazard. With the engine off, clean debris and chaff from engine cylinder head, cylinder head fins, blower housing rotating screen, and muffler areas. Avoid contact with hot muffler.
- **Let engine cool before storing.** Let engine cool for at least five minutes before storing. A hot engine can be a fire hazard.
- **Storage location.** Store the log splitter in a location away from sources of heat, open flames, sparks or pilot lights – such as water heaters, space heaters, furnaces, clothes dryers, or other gas appliances. Even if the log splitter's gas tank is empty, residual gasoline vapors could ignite.
- **Gasoline storage.** Store extra gasoline in a cool, dry place in an UL approved, tightly sealed container. Gasoline vapors can ignite if they collect inside an enclosure.
- **Periodic maintenance.** Perform periodic maintenance as directed in this manual to keep the log splitter in safe working condition.

# Assembly Instructions

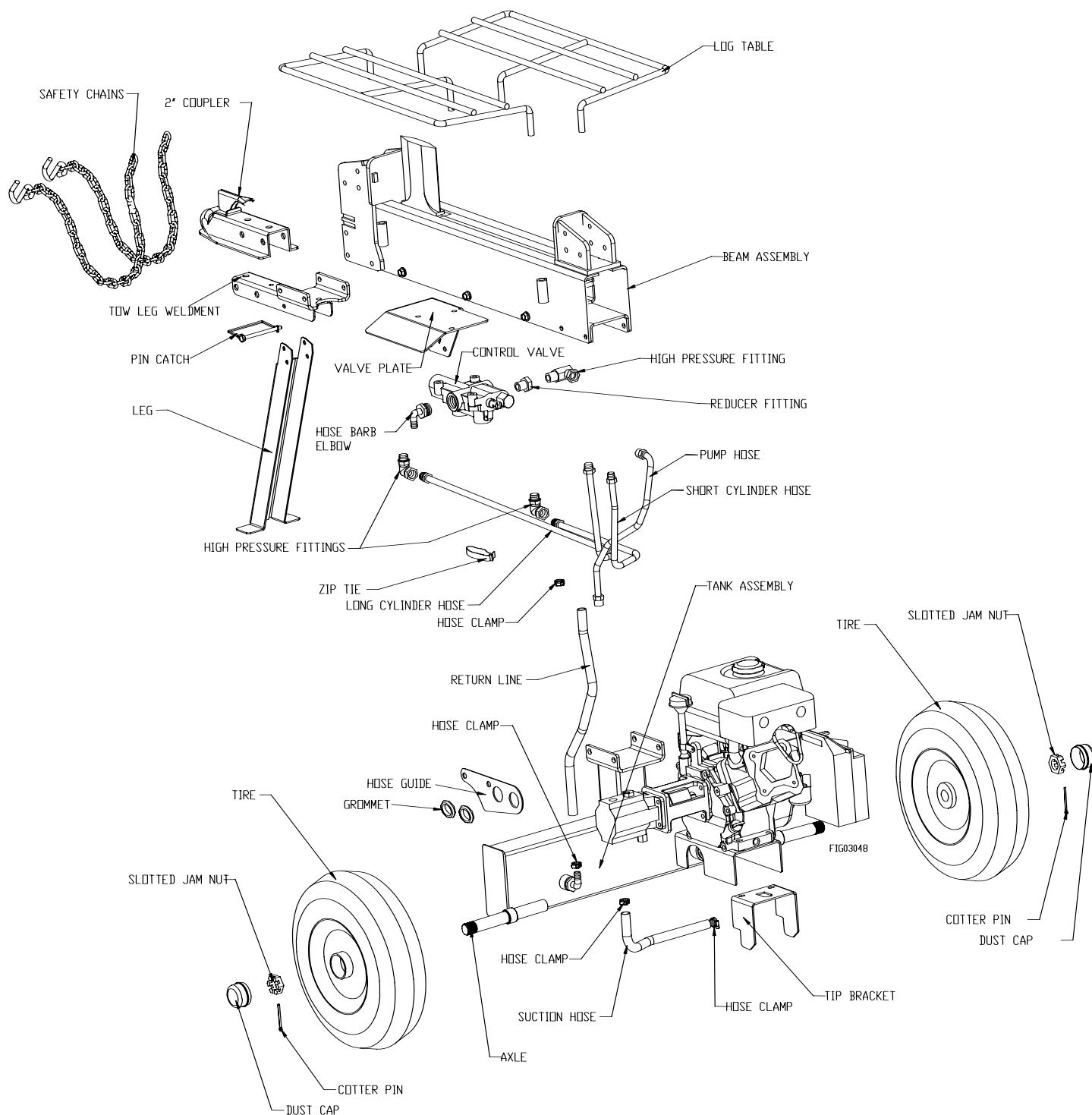
*Closely inspect all log splitter components and contents of manual bag (see diagrams).*

*If you have missing components, contact Product Support at 1-866-443-2576.*

*If you have damaged components, contact the Freight Company that delivered the unit and file a claim.*

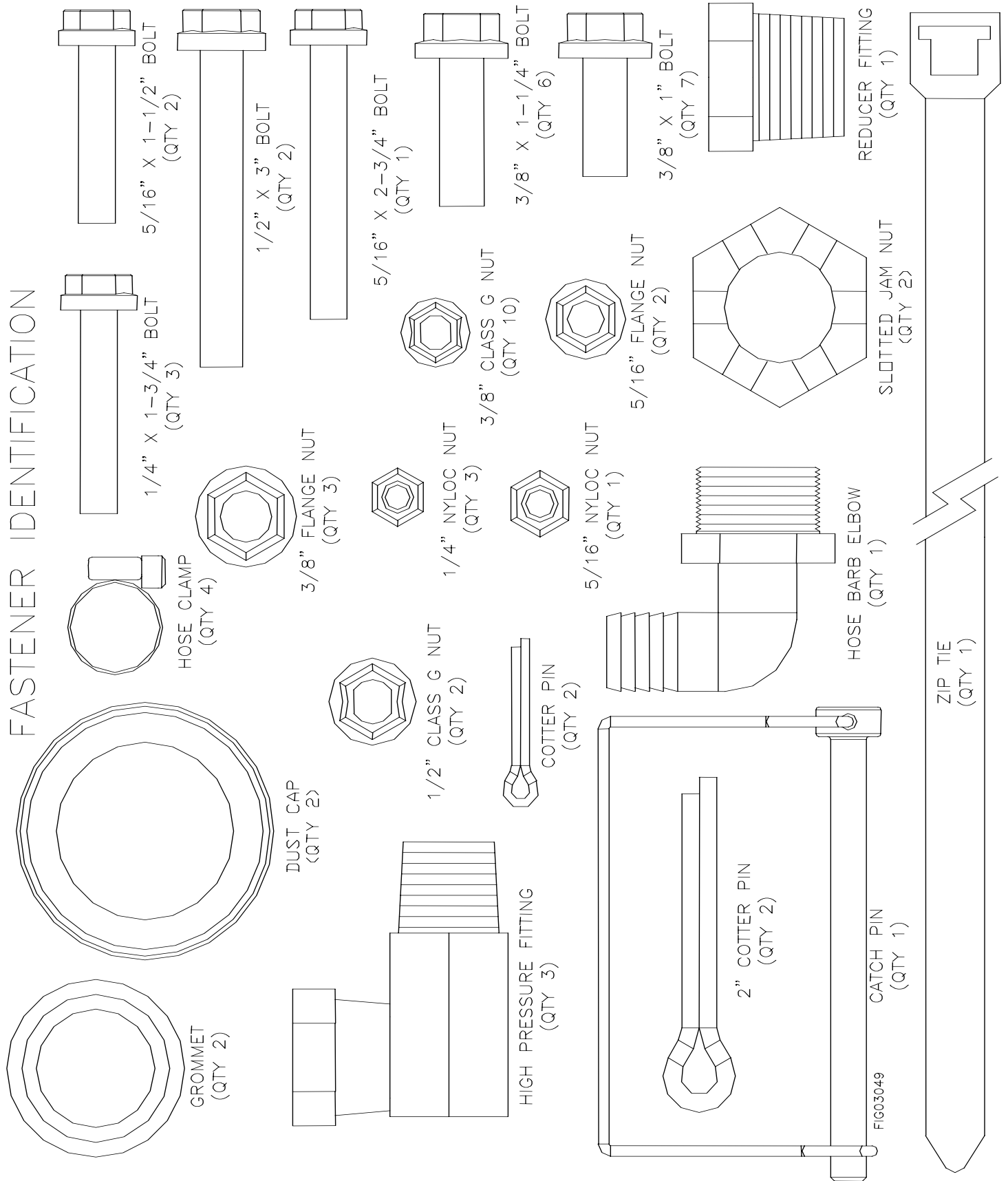
**CAUTION! Heavy lifting required.** Some of the components in these assembly instructions are heavy and cannot be lifted by one person safely. Please plan on assembling this product when another person can be available to help out.

**Tools needed:** Adjustable wrenches, Torque Wrench, Soft Faced Mallet, Flat Blade Screw Driver



# Assembly Instructions

## FASTENER IDENTIFICATION

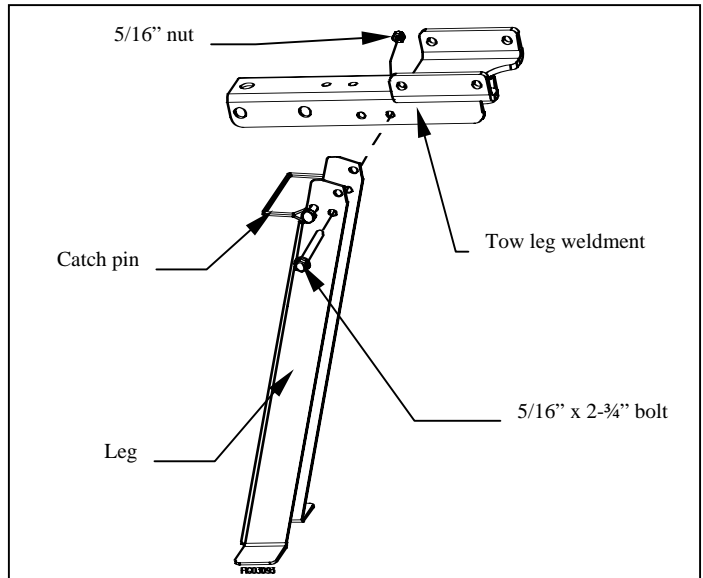




# Assembly Instructions

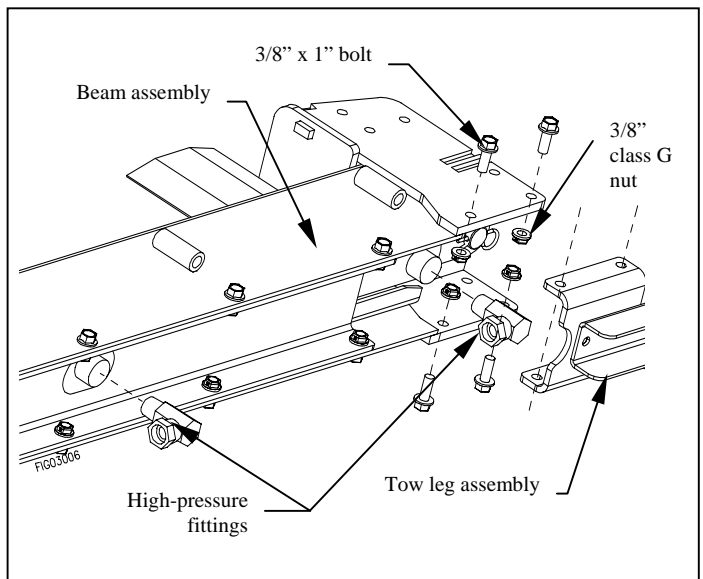
## Step 1

- Install Leg to Tow Leg Weldment using 5/16 x 2-3/4 Bolt and 5/16 Nyloc nut.
- Install Catch Pin through Hole in Tow Leg as shown.



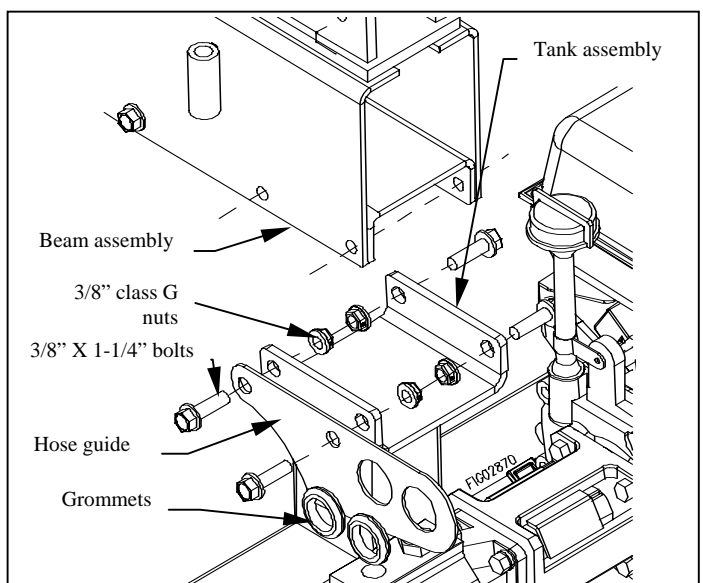
## Step 2

- Install the High Pressure Fittings to the Beam Assembly. Thread the fittings into the cylinder. Orient the Fittings as shown.
- Install the Tow Leg Assembly to the Beam Assembly. Use 3/8" x 1" Bolts and 3/8" Class G Nuts. Using a Torque Wrench, tighten to 37lb-ft.



## Step 3

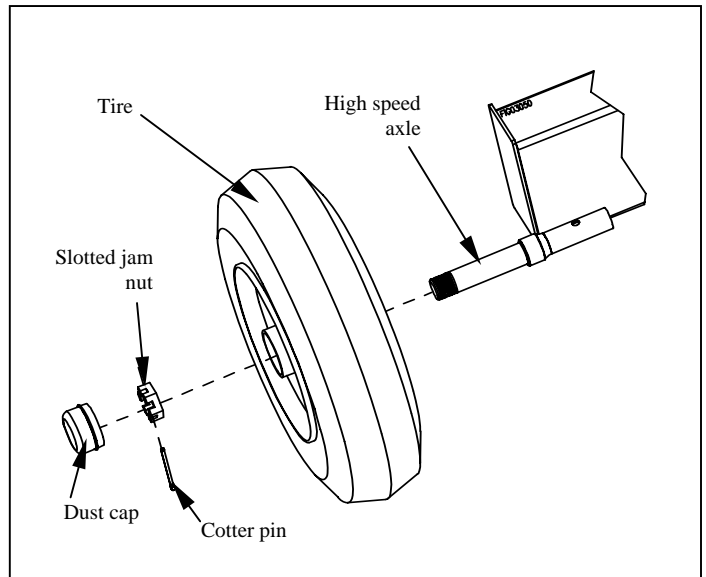
- Attach the Beam Assembly and the Hose Guide to the Hydraulic Tank Assembly.
- Use 3/8" x 1-1/4" Bolts, and 3/8" Class G Nuts. Using a Torque Wrench, tighten to 37lb-ft.
- Install Grommets into the Hose Guide.



# Assembly Instructions

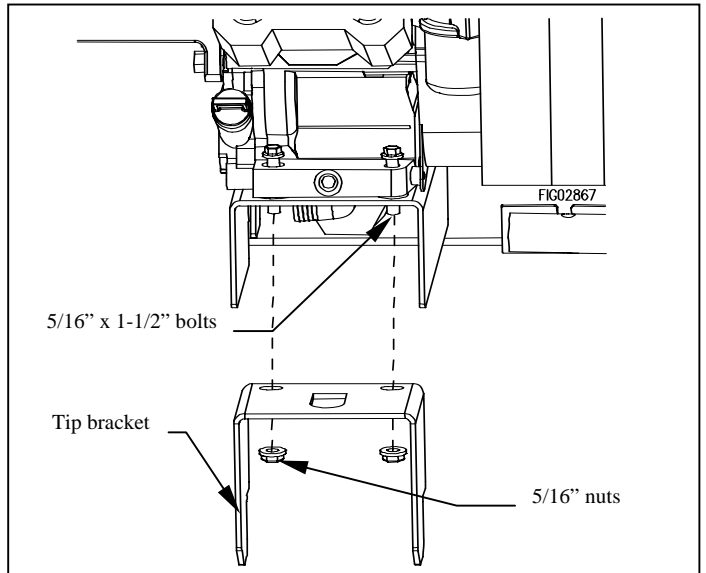
## Step 4

- Slide Tire onto Axle with Valve Stem facing out
- Thread Axle Nut onto Axle (hand tight)
- Back Axle Nut off ¼ turn
- Make sure Tire spins freely
- Insert Cotter Pin through hole in Axle and bend it so Axle Nut cannot come off
- Make sure Tire spins freely
- Tap Dust Cap onto Tire with a soft faced mallet
- Repeat steps for the other Tire



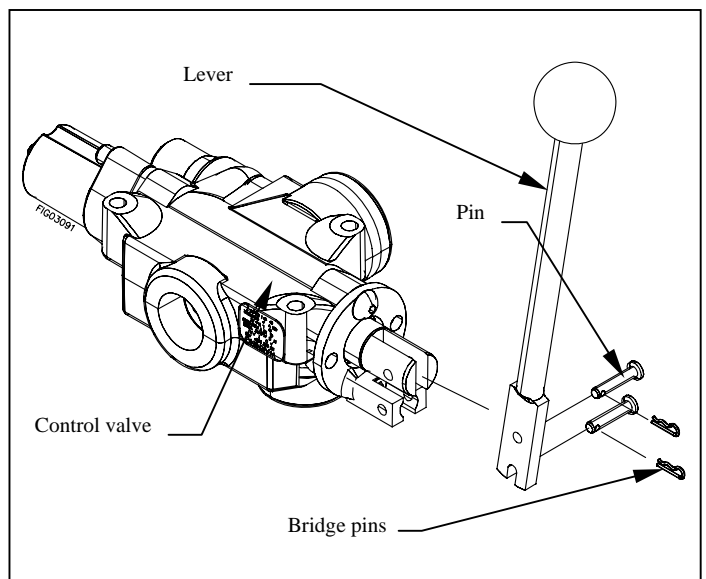
## Step 5

- Install the Tip Bracket to the Hydraulic Tank Assembly. Use 5/16" x 1-1/2" Bolts and 5/16" Flange Nuts to secure the Bracket. Using a Torque Wrench, tighten to 20lb-ft.



## Step 6

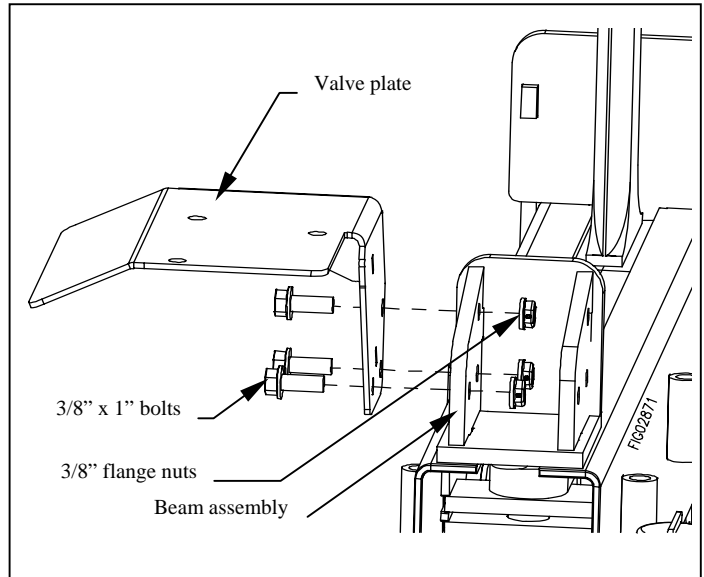
- Fasten Lever to Control Valve with Pins and Bridge Pins as shown.



# Assembly Instructions

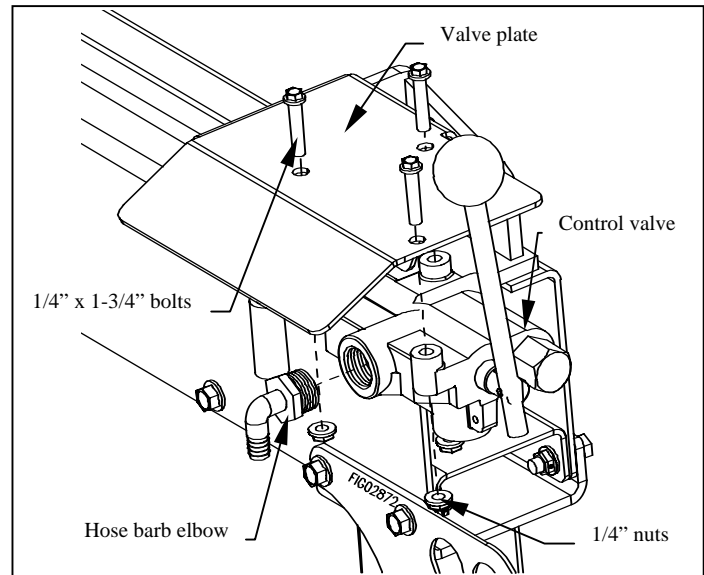
## Step 7

- Install the Valve Plate to the Beam Assembly.
- Use 3/8" x 1" Bolts and 3/8" Flange Nut.



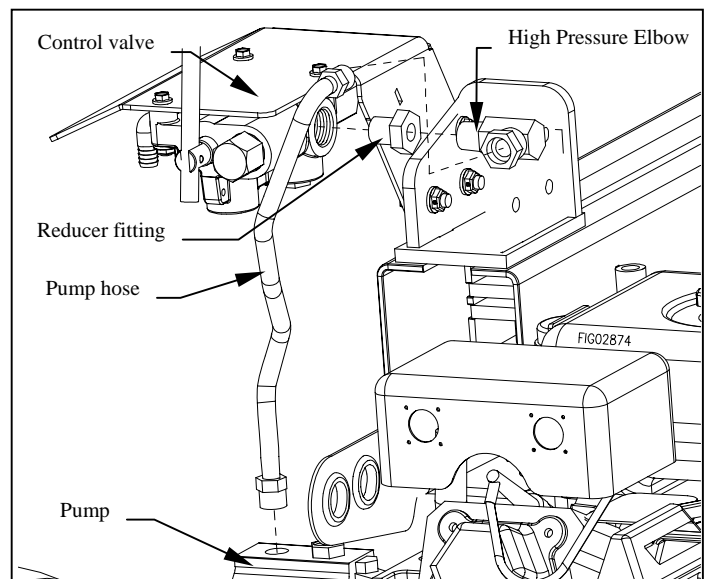
## Step 8

- Install the Hose Barb Elbow to the Control Valve port marked "Out". Orient Hose Barb Down as Shown.
- Attach the Control Valve to the Valve Plate.
- Use 1/4" x 1-3/4" Bolts and 1/4" Flange Nuts



## Step 9

- Attach the Reducer Fitting and the High Pressure Elbow to the Control Valve port marked "IN". Orient the High Pressure Elbow as shown.
- Attach Pump Hose to the Pump, use Teflon Tape on threads into Pump.
- Attach the loose end to the High Pressure Elbow, Teflon Tape is not needed.

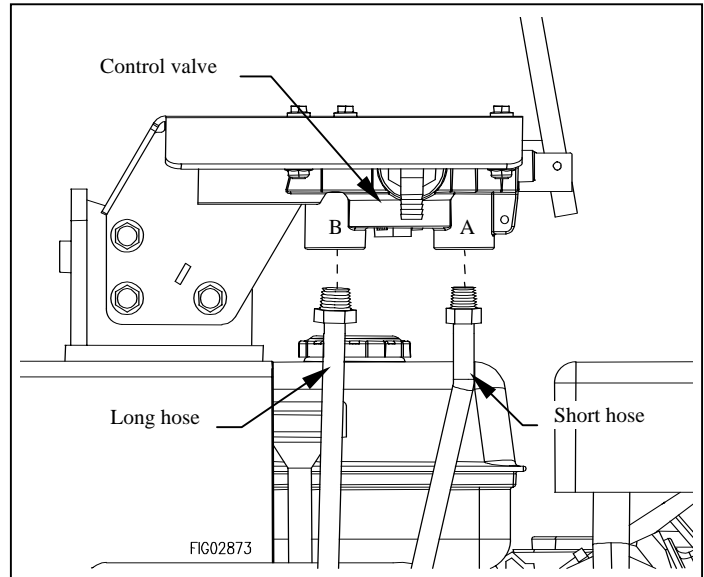


# Assembly Instructions

## Step 10

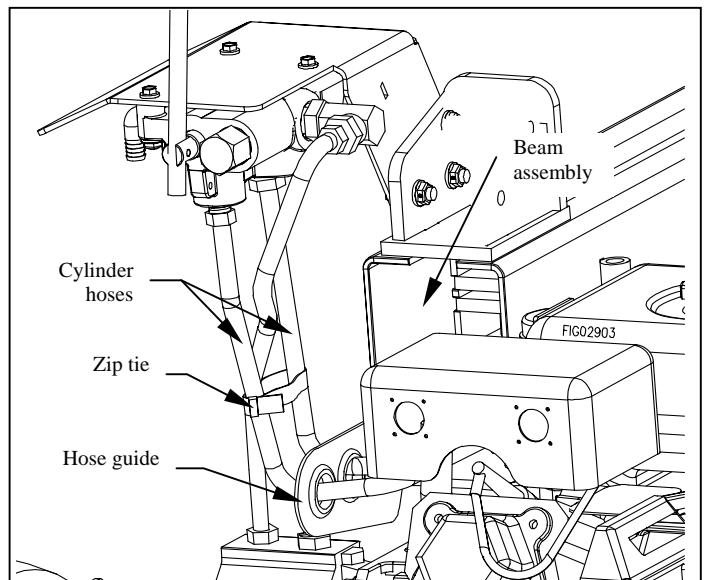
- Attach the Cylinder Hoses to the Control Valve.
- Use Teflon Tape on Hose Threads.
- Attach the Long Cylinder Hose to the Control Valve Port marked “B”.
- Attach the Short Cylinder Hose to the Control Valve Port marked “A”.

\* Pump Hose removed for Clarity



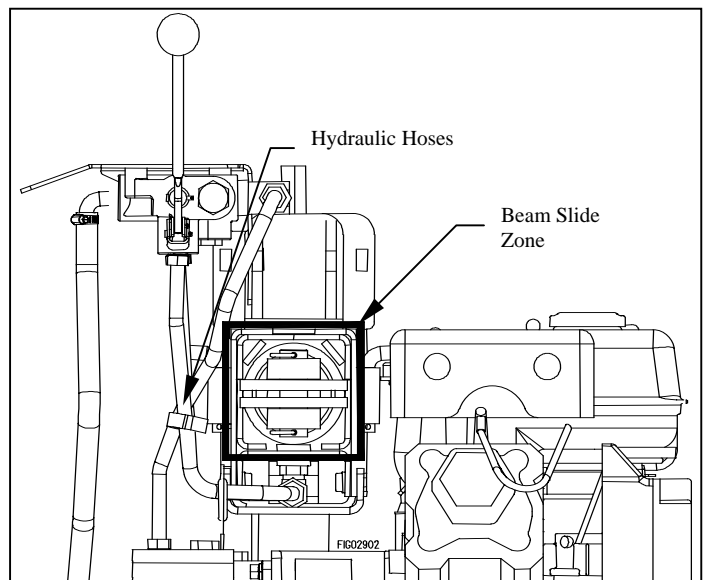
## Step 11

- Route the Cylinder Hoses through the Hose Guide and then through the opening between the Beam Assembly and Hydraulic Tank Assembly.
- Install the Zip Tie around the pump and cylinder hoses.



## WARNING

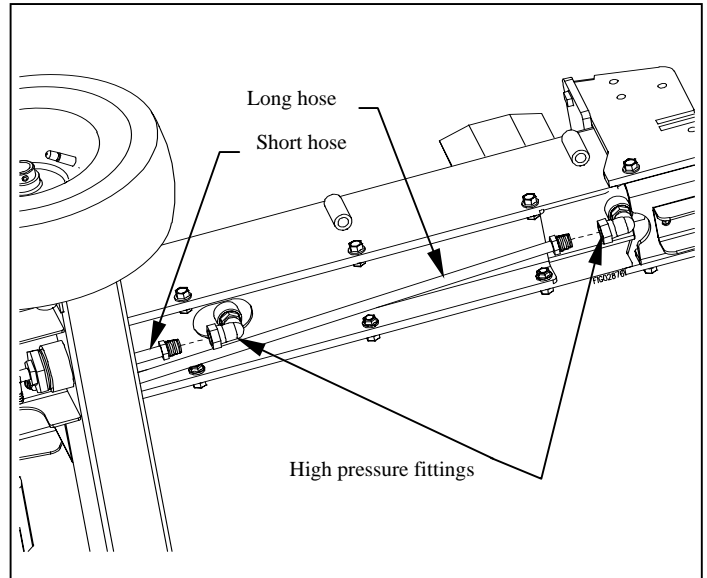
- All Hoses should be routed and secured outside of the beam slide zone.
- Note: Injury can occur if beam slide comes into contact with any hose.



# Assembly Instructions

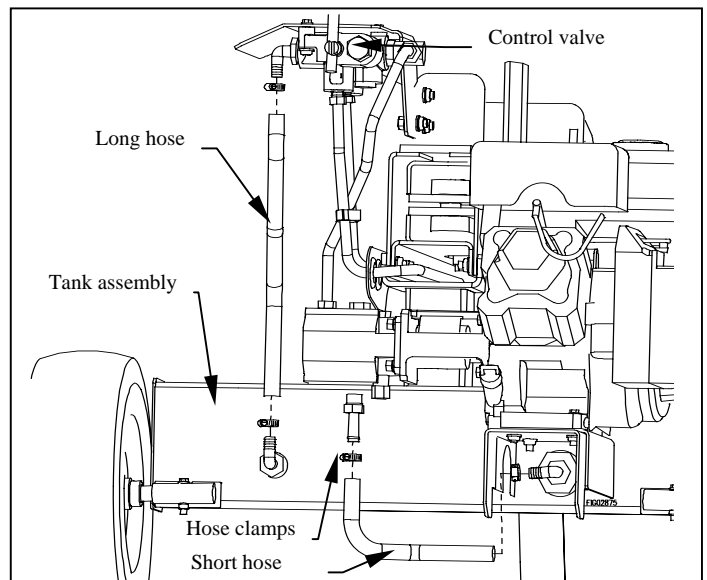
## Step 12

- Attach the Cylinder Hoses to the High Pressure Fittings.



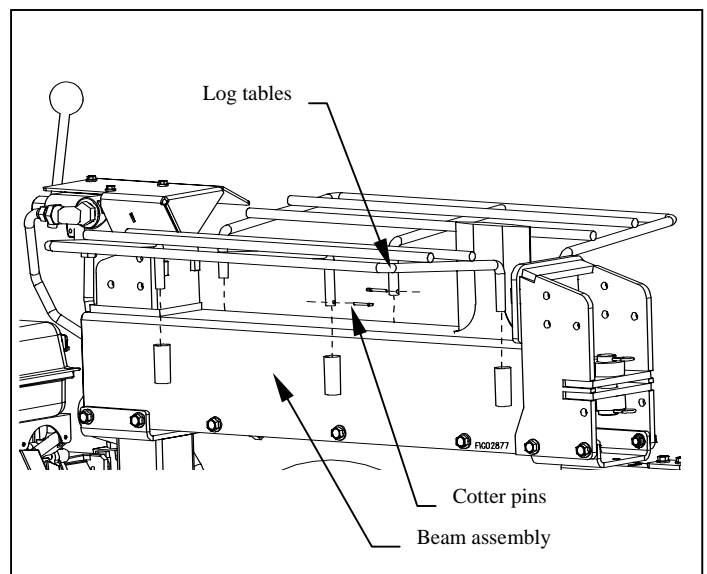
## Step 13

- Connect the Long Low Pressure Hose to the Hydraulic Tank Assembly and the Control Valve with the Hose Clamps.
- Connect the Short Low Pressure Hose to the Hydraulic Tank Assembly and the Hydraulic Pump with the Hose Clamps.



## Step 14

- Install the Log Tables to the Beam Assembly. A soft-faced mallet may be required.
- Secure the Log Tables with the supplied Cotter Pins.



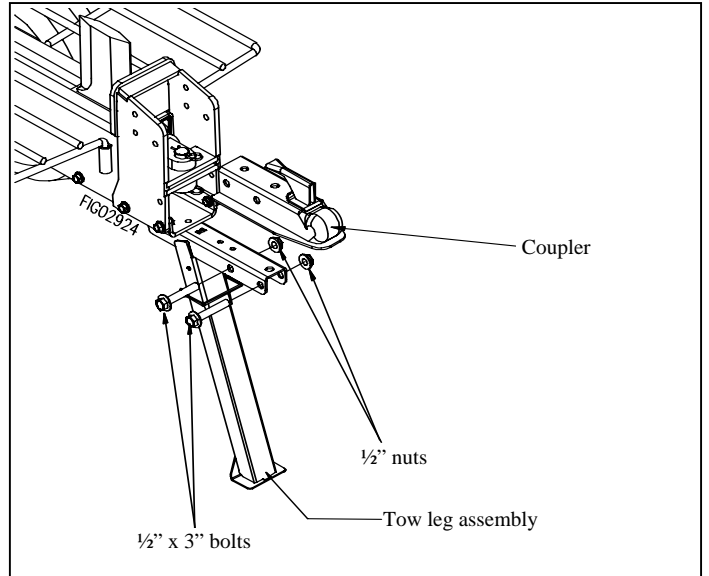
## Step 15

- Fill Log Splitter with Hydraulic Fluid as outlined in the Initial Unpacking & Set-Up section of the manual.
- Fill Engine with SAE 10W-30 as recommended by the Engine Manufacturer.

# Assembly Instructions

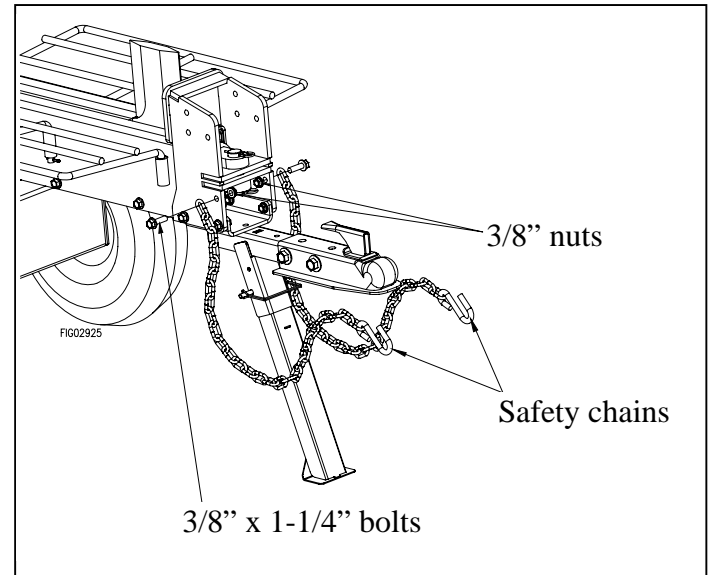
## Step 16

- Attach coupler to Tow Leg Assembly using (2)  $\frac{1}{2}$ " x 3" bolts and (2)  $\frac{1}{2}$ " Class G Flange Nuts. Tighten Bolts to a 90 lb-ft torque.



## Step 17

- Attach safety chains to beam using  $\frac{3}{8}$ " x 1- $\frac{1}{4}$ " Bolts and (2)  $\frac{3}{8}$ " Class G Nuts. Tighten Bolts to a 37 lb-ft torque.



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Manufactured by  
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P.O. Box 1499 Burnsville, MN 55337-0499  
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