Loader Safety Symbols
SAFETY ALERT SYMBOL

Means: ATTENTION. BE ALERT. YOUR SAFETY IS INVOLVED.
WARNING
WARNING identifies the hazard or unsafe practice that could result in severe personal injury or death.
CAUTION identifies the hazard or unsafe practice that could result in personal injury or property damage.
NOTICE identifies important installation, operation, or maintenance information.
DANGER IDENTIFIES THE HAZARD OR UNSAFE PRACTICE THAT WILL RESULT IN SEVERE PERSONAL INJURY OR DEATH.
Loader Safety Symbols Overview (loader) pt. 1
Loader Safety Symbols Overview
(trailer) pt. III
WARNING
Excessive hydraulic pressure can cause component or structural failure, which may result in severe personal injury or death.

Wear eye and personal protection equipment (PPE)!
DO NOT exceed factory-adjusted pressure settings.
DO NOT exceed relief setting.
Refer to operation & maintenance manual for correct relief pressure settings.
CAUTION
THIS LIFTING ROD TO BE USED FOR LIFTING COUNTERWEIGHT ONLY. DO NOT USE FOR LIFTING LOADER
Exploding gases and acid can cause severe burns.

DO NOT work on batteries without proper instruction and training.

See operators manual.
WARNING

CONTACT WITH FAN COULD CAUSE PERSONAL INJURY.
DO NOT PLACE HANDS NEAR FAN WHEN STARTING OR RUNNING ENGINE.
ALWAYS REPLACE SHROUD DOORS AFTER WORKING ON ENGINE.
RADIATOR CAP

⚠ CAUTION ⚠ Pressurized cooling system can cause scalding burns.

Wear eye and personal protection equipment (PPE)!

Do not remove radiator cap unless engine is cool. Allow system to cool. Remove cap slowly to relieve pressure before removing completely.
Servicing this machine can cause injury or machine damage done improperly.

Use proper tools and equipment. Refer to operators manual for instructions.
OPERATOR PREPARATION

Operator must be fully trained, qualified, and authorized to operate this machine. Before operating this machine, operator must know the location and purpose of:

- controls
- indicator lights
- instruments
- safety and instruction decals

(See Section 2, Safety Decals.)
FALLING OR SWINGING LOGS

⚠️ WARNING ⚠️ Falling or swinging logs, booms, or attachments can cause severe personal injury or death.

Never operate the boom, attachment or load over or near personnel.
UNSTABLE PLATFORM

⚠️ WARNING ⚠️ Unstable platform can cause severe personal injury or death.

Lower all stabilizers before operating machine.
WARNING

FAILURE TO PERFORM A DAILY INSPECTION OF THE LOADER COULD RESULT IN MACHINE DAMAGE AND SEVERE PERSONAL INJURY.

PERFORM A DAILY INSPECTION OF THE FOLLOWING COMPONENTS: STRUCTURES, BOOMS, CYLINDERS, TURNTABLE, SWING BEARING, LOAD BEARING ITEMS, AND ALL MOUNTINGS.
AVOID CONTACT WITH STABILIZERS

⚠️ WARNING ⚠️ Coming into contact with stabilizers can cause serious personal injury or death.

Clear all personnel from work area before raising or lowering stabilizers.
WARNING

ACCIDENTAL MOVEMENT OF TURNTABLE OR BOOMS CAN CAUSE SEVERE PERSONAL INJURY.

BEFORE LEAVING CAB, ALWAYS LIFT LEFT ARMREST TO DISENGAGE HYDRAULIC PILOT CIRCUIT AND FREE DOOR ENTRY/EXIT PATH.
WARNING

UNEXPECTED MOVEMENT OF SAW BLADE CAN CAUSE SEVERE PERSONAL INJURY.
HYDRAULIC PRESSURE CAN BE APPLIED DIRECTLY TO SAW BLADE MOTOR WHEN LOADER IS STARTED. BE SURE SAW CONTROL LEVER IS IN THE NEUTRAL POSITION BEFORE ATTEMPTING TO START LOADER.
**HAND SIGNALS**

**WARNING** Accidents can cause severe personal injury or death.

Know and use the hand signals required for particular jobs.

Know who has the responsibility for signaling.

Before starting Loader with saw connected:
- Read Loader & saw operating instructions
- Locate & know function of all operating control levers
- Check for operating blind spots around equipment
\section*{DANGER}

CONTACTING ELECTRIC LINES WITH BOOM, LINE, OR LOAD WILL CAUSE SEVERE INJURY OR DEATH. WATCH FOR OVERHEAD POWER LINES. TREAT ANY LINE AS LIVE AND DANGEROUS. IF AT ALL POSSIBLE, HAVE THE POWER LINE DISCONNECTED BEFORE STARTING WORK.

Never move any part of the machine or load closer to electric lines than 10 feet plus twice the line insulator length. A line insulator is what connects an electric line to an electric pole.

For example, if a line insulator is 6 inches long, stay at least 10 feet plus twice the line insulator length (2 \times 6 = 12 inches or 1 foot) from the electric line, which means stay at least 11 feet from this electric line.

If the machine touches an electric line, stay in the machine. Carefully move machine or load away from the electric line, without pulling the line down.

\textbf{DO NOT} let anyone else touch the machine while it is touching the electric line. If machine cannot be moved away from the electric line without pulling the line down, have someone contact the utility company to disconnect power from the line. If this is not possible, or if the machine begins to burn, jump away from the machine to the ground with both feet together, in one smooth jump. \textbf{DO NOT} touch the machine and the ground at the same time or else the electricity in the line will go through your body. Get away from the machine after jumping.

Notify the utility company immediately. \textbf{DO NOT} let anyone near the machine while it is touching the electric line.
Do not exceed speeds of 50 mph when transporting machine. Tire malfunction can occur resulting in serious personal injury or death.
BATTERY SAFETY

**WARNING** Batteries produce explosive gases that can cause severe personal injury or death.

Battery acid is poisonous and can cause severe burns. If acid is taken internally, call a physician immediately. If acid contacts skin or clothing, flush with water immediately. Keep batteries away from children.

Battery posts, terminals, and related accessories contain lead and lead components, chemicals known to the State of California to cause cancer and reproductive harm. Wash hands after handling.

Keep sparks, flames, and cigarettes away from batteries. Ventilate properly when charging or using batteries in enclosed space. Always shield eyes with goggles and wear a face shield when working near batteries. Do not lean over batteries during this operation. Always connect positive (+) to positive (+) and negative (-) to negative (-). For further instructions, see Jump Starting Battery in Section 6, Operation. If battery acid contacts eyes, flush them with water for 15 minutes and seek immediate medical attention.

Never charge a battery or jump start engine if battery is frozen. Warm battery to 60°F (16°C) or it may explode. Be sure vent caps are tight. When jump starting from another machine, be sure machines do not touch. This machine has a 12-volt starting system. Use equal voltage for jump starting.
ELECTRIC LINES

⚠ DANGER ⚠ SERIOUS INJURY OR DEATH WILL RESULT FROM CONTACT WITH ELECTRIC LINES.

Never move any part of machine or load closer than 10 feet plus twice the line insulator length to electric lines. A line insulator is what connects an electric line to an electric pole.

For example, if a line insulator is 6 inches long, operator must stay at least 10 feet plus twice the line insulator length (2x6 = 12 inches or 1 foot) from electric line, which means machine must stay at least 11 feet from the electric line.

If machine touches an electric line, stay inside the cab. Carefully move machine or load away from electric line, without pulling the line down.

DO NOT allow anyone else to touch machine while it is touching an electric line. If machine cannot be moved away from the electric line without pulling line down, have someone contact the utility company to disconnect power from line. If this is not possible, or if machine begins to burn, jump away from machine to the ground with both feet together, in one smooth jump. Do not run or walk away from machine. Jump with feet together (“bunny hop”) away from machine. DO NOT touch machine and ground at the same time or else electricity in the line will go through your body. Get away from machine after jumping.

Notify the utility company immediately. DO NOT let anyone near the machine while it is touching an electric line.
ELECTRICAL STORM

⚠️ WARNING ⚠️  Electrical storms (lightning) can cause severe personal injury or death.

When lightning is striking in the vicinity of the machine, the operator should NEVER attempt the following procedures:

Mount the machine

Dismount the machine

If you are in the operator’s station during an electrical storm, stay in the operator’s station. If you are on the ground during an electrical storm, stay away from the vicinity of the machine.
FIRE PREVENTION/FIRST AID

CAUTION Fires can cause personal injury and/or machine damage.

Keep machine clean. Forest debris, rags, and trash will cause fires. Remove all debris, rags, and trash from machine, especially around engine and hydraulic components.

Repair all hydraulic and fuel leaks immediately. Do not operate machine with hydraulic or fuel leaks.

Fire prevention beats fire fighting. Remove debris from all compartments after every 8 hours of operation, or more often, if warranted by working conditions.

Install a first-aid kit in the cab.

Properly maintain first-aid kit and fire extinguisher. Follow instructions provided with them.
FLUIDS UNDER PRESSURE

⚠️ WARNING ⚠️ Fluids escaping under pressure can penetrate skin and cause severe personal injury or death. Wear eye and personal protection equipment (PPE)!

Always use a board or cardboard when checking oil hoses, lines, and fittings for leaks, cracks, or defects. Be sure all clamps are in their proper position and torqued as required and specified. Be sure hoses are not twisted or touching parts.

DO NOT use hands to search for leaks. Escaping fluids can penetrate skin and enter the bloodstream. Before disconnecting lines, relieve all pressure.

DO NOT apply pressure to a damaged line, hose, or fitting.

If ANY fluid is injected into the skin, seek medical attention immediately. A serious infection or reaction can result without proper medical treatment.
HAND HOLDS AND STEPS

**WARNING** Slips and falls can cause severe personal injury or death.

Use provided hand holds and steps while maintaining at least 3 points of support (1 foot and 2 hands or 2 feet and 1 hand) when getting on and off machine. Face machine when getting on and off of it.

Never use controls as hand holds. Never use steering wheel as a hand hold. Moving the steering wheel from its center position will COMPLETELY turn machine right or left.

DO NOT mount machine if hand rails or steps are broken or missing. Get them repaired first.

DO NOT jump on or off machine unless it has touched a live electrical wire and it must be exited.

Ensure firm foot position when getting on and off machine. Be careful of slippery conditions on platform, steps, and hand holds when getting on and off machine.

Remove oil, grease, mud, ice, etc. before mounting or dismounting machine.

To prevent slips and falls, replace skid-resistant material if it is worn, damaged or missing.
HOSES AND FITTINGS

⚠️ WARNING ⚠️ Mismatched brands or types of hoses and fittings can blow apart and cause severe personal injury or death.

DO NOT interchange brands or types of hoses and fittings.

DO NOT install a fitting from one manufacturer on a hose from a different manufacturer.

DO NOT install crimp fittings on hoses meant for reusable fittings.

Wear eye and personal protection equipment (PPE)!

Always use a board or cardboard when checking oil hoses, lines, and fittings periodically for leaks, cracks or defects. Be sure all clamps are in their proper position and torqued as required and specified. Be sure hoses are not twisted or touching parts.
NO RIDERS ON MACHINE

⚠️ WARNING ⚠️ Machine riders can fall from machine or be injured by movement of machinery, causing severe personal injury or death.

Do not allow riders on any machine that is operating or moving.
OPERATOR SAFETY

⚠️ WARNING ⚠️ Flying debris, tree limbs, and/or other material can cause severe personal injury or death.

When operating machine:

1. Cab door must stay closed.
2. Window material and/or cab guarding MUST be in place.
3. All cab openings (front, side, and rear) MUST be covered with window material (no glass) and/or protective screen.
4. Window guarding MUST be locked in place.
PRACTICE SAFE MAINTENANCE

Understand service procedures before performing maintenance. When performing maintenance, keep area around machine clean and dry.

DO NOT service machine while it is moving. Keep away from power-driven parts. Lower attachment to the ground. Disengage power. Shut engine down. Move controls in all directions to relieve hydraulic pressure. Remove key from ignition. Allow machine to cool down.

Support all raised equipment.

Keep all machine parts in good condition, and be sure parts are properly installed. Repair damage immediately. Repair all hydraulic and fuel leaks immediately. Replace worn or broken parts. Remove any buildup of grease, oil, or debris.

Disconnect battery ground cable (-) before adjusting the electrical system.
REFUELING

⚠️ WARNING ⚠️ Fires and explosions can cause severe personal injury or death.

Handle fuel with care. It is highly flammable.

DO NOT refuel machine while smoking or when near open flame or sparks.

Always stop engine before refueling. Fill fuel tank outdoors. Prevent fires by keeping machine clean of trash, grease, and debris. Always clean up spilled fuel.
STARTER CIRCUITRY

⚠️ DANGER ⚠️ MACHINE WILL START IN GEAR IF START CIRCUITRY IS BYPASSED.

Do not attempt to start machine engine by shorting starter circuit across starter terminals. Doing so may cause unintended machine movement which could result in severe personal injury or death and serious machine and/or property damage.
UNAUTHORIZED WELDING

⚠️ WARNING ⚠️ Unauthorized welding can cause structural failure and/or severe personal injury or death.

DO NOT weld on any structural member. Any unauthorized welding or repair will void the warranty.

Once authorized, be sure to turn battery disconnect master switch OFF and place welding ground (stinger) as close to weld site as possible. Do not allow weld current to pass through bearings or pivot points.

NOTICE Unauthorized welding can cause damage to the electrical system.


**WARNING**

DO NOT use starting fluid under any circumstances. Using starting fluid on an engine equipped with a grid air heater may cause a fire and/or explosion that will result in serious damage to equipment and may cause serious personal injury or death.

**COLD WEATHER STARTING PROCEDURE**

If the engine temperature is less than 45°F (7°C), the grid air heater system should activate as outlined below.

1. Close cab door.
2. Lower LH control carrier to engage pilot pressure control switch (see Controls & Instruments section in this manual).
3. Turn key switch clockwise to ON position. The wait-to-start indicator (A) will light. Wait for the wait-to-start indicator to go out.
4. Turn key switch clockwise to START (B). Release key when engine starts. If engine fails to start within 30 seconds, turn key OFF and wait at least 2 minutes to allow starter motor to cool.

   If engine fails to start after 4 attempts, troubleshoot and correct the problem.

   DO NOT turn key to START while engine is running. Doing so can cause damage to the starter.
PINCH POINTS

⚠️ WARNING ⚠️ Placing your hands or any portion of your body where the machine moves can cause severe personal injury or death. Never place hands or any portion of your body where injury could occur if the machine moves. Never check pin hole alignments with your finger.
COOLING FAN

⚠️ WARNING ⚠️ Rotating fan can cause severe personal injury or death. Cooling fan can start at any time, even with the ENGINE off. Keep away from fan at all times.
WARNING Servicing loader with engine running can cause severe injury or death. When maintenance procedure requires engine be running, ONLY qualified service technicians should service machine.
DISPOSING OF WASTE

Follow applicable local, state, federal, and international regulations when disposing of waste. Waste may include oil, fuel, coolant, brake fluid, filters, and batteries.

Use leakproof containers when draining fluids. Do not use food or beverage containers. Do not pour waste on the ground, down a drain, or into any water source.
**WARNING** Cooling system is under pressure. HOT engine coolant can cause severe burns. DO NOT remove radiator filler cap unless engine is cool. Slowly release all pressure before cap (A) removal.

1. Shut down engine and remove key.

**Wear eye and personal protection equipment (PPE)!**

2. Gain access to the radiator cap. The radiator cap can be accessed through the cover on top of the engine shroud.

3. Rotate radiator cap 1/4 turn to relieve pressure. Remove radiator cap slowly. Do not stand with face over cap when removing.

**NOTICE** Do not pour cold liquid into a hot engine. Allow the engine to cool below 120°F (50°C) before adding coolant.

4. Coolant level should be at the bottom of the fill neck. If necessary, fill with coolant. For the proper coolant mixture, refer to Engine Coolant Specifications in the Fuels and Lubricants section.

During filling, air must be vented from engine coolant passages. Refer to your engine operator's manual for cooling system maintenance.
Loader Safety Symbols Review (loader) pt. I
Loader Safety Symbols Review (cab) pt. II