



CH3500 HARVESTER OPERATOR'S MANUAL

Introduction

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CAMECO® CH3500 HARVESTER OPERATOR'S MANUAL

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All information, illustrations and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.



MACHINE IDENTIFICATION

CH3500 Identification View



cm023500114



SAFETY RECOMMENDATIONS

Service Safety

When a service person or mechanic is unfamiliar with all systems on this harvester, extra caution should be used when performing service work. A good working knowledge of the system and its components is important for removal or disassembly. The following is a list of basic precautions that should always be observed.

1. Make sure that you read and understand all warning plates and decals before lubricating or performing other maintenance.
2. Always wear protective glasses and footwear when working. In particular, wear safety glasses when pounding on any part of the machine or attachments with a hammer. Use protective clothing when welding. *Do Not* wear any loose fitting or torn clothing. Remove all rings from fingers before working on equipment.
3. Before starting work on the machine, disconnect battery and hang this **DO NOT START** sign in the operator's station.



IMPORTANT:

- Before climbing on machine, ensure that no one is working in or on it.
- Ensure that all operators blow the horn several times before starting the machine.
- Ensure that all persons anywhere near the machine know that when the horn blows, the machine is about to be started, and to move away as soon as possible.

Use the following Lock-Out Tag-Out Procedure:

- A. Parking Procedure
 1. Lower topper onto safety stop.
 2. Lower basecutter onto safety stops.
 3. Lower crop dividers
 4. Lower elevator

NOTE: In the event that topper and/or basecutter safety stops are not functioning properly, a 2" x 2" x 1/4" angle iron by the length required may be used as a temporary safety stop.

- B. Stop engine, remove ignition key, disengage and remove electrical system master disconnect switch; remove negative battery cables from battery, install lock out device and tag. Also tag steering wheel or track control.
- C. Before beginning any hydraulic repairs you must first relieve pressure from the hydraulic tank.

NOTE: In the event repairs need to be made to the basecutter lift and/or topper lift, the hydraulic pressure should be relieved by lowering the basecutter and/or topper.

4. If at all possible, make all repairs with the machine parked on level ground. Block the machine so it cannot roll. *Do Not* work on any machine that is supported only by lift jacks or a hoist.
5. Relieve all pressure in air, oil, or water systems before any lines, fittings, or related parts are disconnected or removed. Always make sure that all raised components and implements are correctly blocked. Be alert for possible pressure when disconnecting any device from a system that utilizes pressure.

▲ CAUTION ▲

Liquid escaping from a very small hole can be almost invisible. Use wood or cardboard, instead of your hand, when searching for suspected leaks.

6. Escaping fluid under pressure can have sufficient force to penetrate the skin. Therefore, before disconnecting any lines, be sure all pressure in the system is relieved. Before applying pressure, make sure all lines, fittings, and connections are tight and undamaged.



SAFETY RECOMMENDATIONS

7. If you are injured by escaping fluid under pressure, see a doctor at once. A serious infection or reaction may result if proper medical attention is not received immediately.

Note: Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Further information is available from Deere & Company Medical Department in Moline, Illinois. 1-800-822-8262

8. Lower all implements to the ground prior to working on the machine. If this cannot be done, make sure the implement is properly blocked to prevent it from dropping unexpectedly.
9. To avoid back injuries, use a hoist when lifting components that weigh over 23 kg (50 lb). When using a hoist, make sure all hooks are correctly positioned.
10. To avoid burns, be alert for hot parts located on the machine after it has stopped. Be particularly careful of hot fluids in lines, tubes, and components.
11. Be careful when removing cover plates. Gradually loosen the last two bolts or nuts located at the opposite ends of the cover or device. Carefully pry the cover loose to relieve any spring or other tension before removing it completely.
12. Be careful when removing filler caps, breathers, or plugs on the machine. Hold a rag over the cap or plug to prevent being sprayed or splashed by fluids under pressure.
13. Always use tools that are in good condition. Before performing any service, make sure you know how to use the proper tools.
14. Replace all fasteners with the same SAE or metric grade. Never substitute a softer part where a hardened part is used, conversely never substitute a harder part where a softer part is used.
15. Take precautions to prevent damage to wiring during removal. After reinstalling the wiring, double check to make sure it is was not damaged during removal or installation. Ensure that the wiring does not touch any hot, sharp, or moving parts after it is installed.

16. Ensure that all protective devices and guards are properly installed and are functioning correctly before starting any repairs. If a guard or shield must be removed to perform repair work, use extra caution while working.
17. *Do Not* operate the harvester if any rotating part is damaged or contacts any other part during operation. Any high-speed rotating component that has been damaged or altered must be checked for balance before operation.
18. Avoid working on equipment with the engine running. If it is absolutely necessary to make checks with the engine running, always use two men: one to operate the controls and the other to work where the operator can see him. The hydrostatic transmission must be in neutral, the braking system set, and all pertinent safety locks set.

Safety in Your Service Area

To maintain proper safety in the service area, the following should be observed:

1. Keep the service area clean and dry. Wet or oily floors are slippery and wet spots can be dangerous when working.
2. Make sure the service area is adequately ventilated. Periodically check the shop exhaust system for leakage.
3. Be sure all electrical outlets and tools are properly grounded.
4. Use adequate lighting for the job.
5. Be prepared if an accident or fire should occur. Know where the first aid kit and fire extinguishers are located. Know how to use both of them.



SAFETY RECOMMENDATIONS

Safety when Cleaning or Storing

The following practices should be observed whenever you clean or store your equipment:

▲ CAUTION ▲
Engine exhaust gas is dangerous.

1. Always stop the engine before cleaning the harvester.
2. Keep the operator's station clean. *Do Not* use it for a storage area. Keep in mind that this harvester has a tilting cab.
3. Avoid a possible fire hazard. Keep the radiator, oil cooler, and engine closure screens free of foreign material.
4. Keep all equipment free of dirt and oil. In bad weather beware of snow, ice, and mud on ladders, steps, and in the operator's station.
5. When preparing the engine for storage, remember that inhibitors are volatile and therefore, dangerous. Seal and tape openings after adding the inhibitor. Keep the inhibitor container tightly closed when not in use.

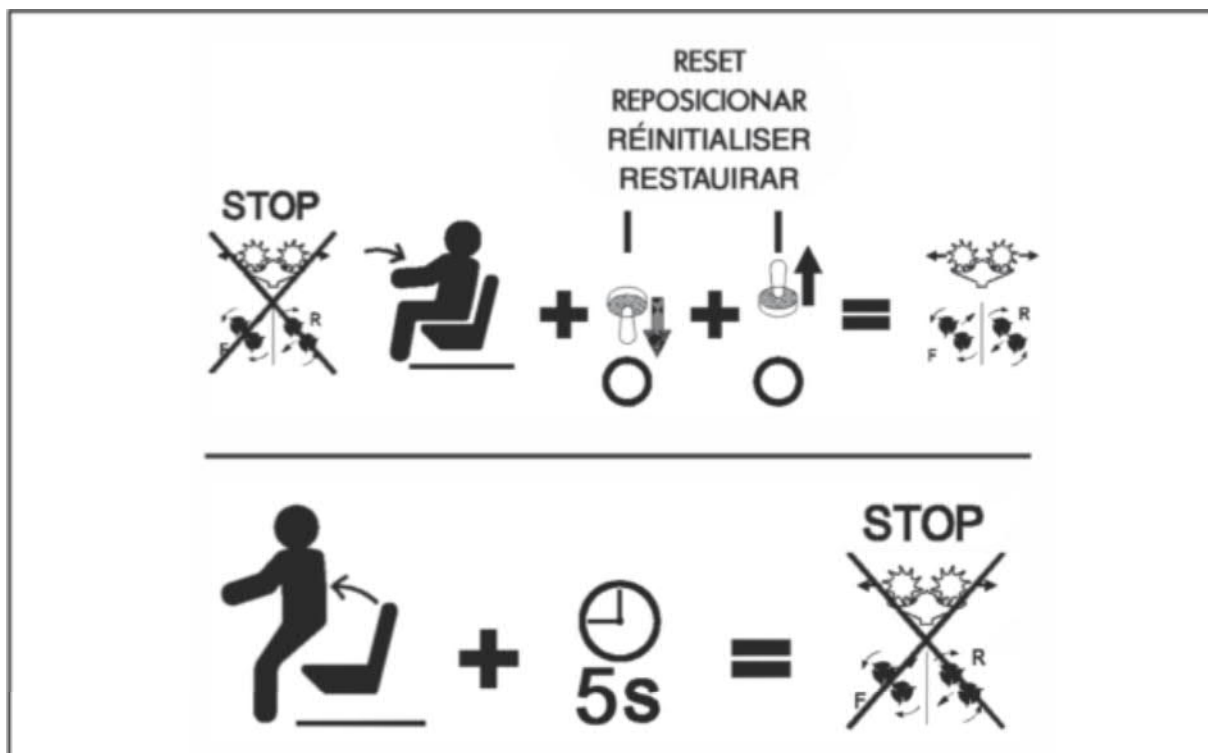
Safety Nevers

The following is a list of practices that you should *Never* use:

1. *Never* smoke while refueling or handling flammable materials.
2. *Never* refuel the engine while it is running. Use care during refueling when the engine is hot.
3. *Never* use open pans of gasoline or diesel fuel for cleaning parts. A good commercial, nonflammable solvent is preferred.
4. *Never* check the charging battery by placing metal objects across the posts. Provide adequate ventilation when charging batteries.
5. *Never* allow sparks or flames near the batteries. This includes smoking near the batteries.
6. *Never* check fuel, battery electrolyte, or coolant levels with an open flame nearby.
7. *Never* use an open flame to look for leaks anywhere on the equipment.
8. *Never* use an open flame as a light anywhere on or near the equipment.
9. *Never* adjust the fuel system while the machine is in motion.



SAFETY RECOMMENDATIONS



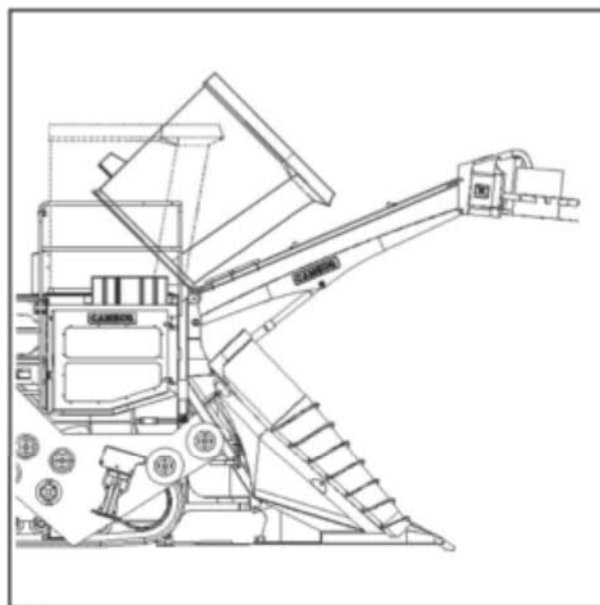
Seat Safety Shut-off

The operator must be seated and the reset switch activated to start harvesting functions.

If the operator leaves the seat for more than five seconds, harvesting functions will stop. To restart harvesting functions, the operator must return to the seated position and cycle the reset switch.

Tilting the Cab

The entire cab tilts forward, providing access to the engine for maintenance and repair by a qualified technician. The cab pivots at the front, raised by a single hydraulic cylinder. Make sure all bystanders are clear of the machine. (See the cab tilting procedure in the Service Section.)



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