

GENERAL SAFETY PRECAUTIONS

This information is intended to point out some of the basic safety practices for situations you may encounter during normal operation and maintenance of the sprayer. Safety messages in other sections address specific hazards and operating practices. Additional precautions may be necessary. It is the responsibility of the operator to follow good safety practices at all times.



This symbol means:
Attention!
Become Alert!
Safety is Involved!

This symbol alerts your attention to information that involves your safety and the safety of others. It will be found on safety decals on your sprayer. The words Danger, Warning, or Caution are used in association with the safety alert symbol.

- **DANGER** indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury.
- **WARNING** indicates an imminently hazardous situation that, if not avoided, could result in death or serious injury.
- **CAUTION** indicates an imminently hazardous situation that, if not avoided, could result in minor or moderate injury.

Replace any DANGER, WARNING, CAUTION or Instructional Decal that is not readable or is missing.

Before using unit, read and understand the following General Safety Precautions. Failure to do so will result in serious damage to unit, conveyor, or yourself.

NOTE: This unit is agricultural equipment – designed for field use only. Your sprayer will enable you to do a safe job if you use common safety practices and common sense.

LIMITATION ON LIABILITIES. It is agreed that, Seller's liability to the Buyer or any third party, for any losses or damages, of persons or property whether direct or otherwise, arising out of the purchase of product from Seller by Buyer shall not exceed the total amount billed and billable to the Buyer for the product hereunder.






A. GENERAL

1. Read and understand Power Unit Manual and the Newton Crouch Inc. Operator's Manual and all safety labels before operating, maintaining or adjusting the sprayer or power unit.
2. Only trained and competent persons should operate the sprayer. An untrained operator is not qualified to operate the equipment.
3. Familiarize yourself with the safety devices on the Power Unit (truck, tractor, etc), such as, but not limited to:
 - a. Seat belt
 - b. Roll-over protective structure and falling object protective structure (ROPS/FOPS)
 - c. Visual and audible warning devices
4. A fire extinguisher and first aid kit should be readily available.
5. Keep shovel, plastic bags, kitty litter, etc available in case of a chemical spill.

B. CLOTHING

1. Wear protective clothing and substantial shoes. Do not wear loose or torn clothing. Rings are not recommended.
2. Wear personal protective equipment. Ear protection and safety glasses may be required.
3. Certain materials may require specific safety equipment to ensure safe handling. It is the operator's responsibility to know and recognize these hazards.

C. POWER UNIT – (TRUCK, TRACTOR, ETC.)

1. Always wear the seat belt when the power unit is moving.
2.  **WARNING:** Be sure all power sources are off before working on your sprayer. Be sure the engine is off and all moving parts are stopped.
3.  **DANGER:** Make sure that the power unit brakes are operating properly and capable of stopping the unit and the loaded sprayer.
4.  **DANGER:** Remember that the stopping and braking distances vary with the load and vehicle speed. Familiarize yourself with the characteristics of your sprayer under different load and speed conditions.
5.  **DANGER:** Never exceed the gross vehicle weight (GVW) of the Power Unit. It is the responsibility of the user/owner to insure that the Power Unit will meet the GVW requirements. Never exceed the capacity of the tires and axles on the Power Unit or sprayer.
6. Read all instructions and be completely familiar with controls before operating the power unit. Call Newton Crouch Inc. if you do not understand any function.
7. Always disconnect battery before welding.
8.  **WARNING:** Be sure lights and all electrical controls are working properly before operating. Lights are a Newton Crouch Inc. option on pull type sprayers.

D. SPRAYER

1. Do not modify or add to the sprayer. Alteration of your sprayer voids all warranties.
2. Inspect before operating for wear, deformation, damaged, or missing parts and replace or repair before operating. Check lubrication in wheel bearings before using.
3. When you receive your new sprayer, all fasteners, hoses, and hydraulic lines must be checked and secured before operation.



4. **DANGER:** Never ride on or in a moving sprayer.
5. Do not transport sprayer with drive wheel engaged.
6. Never back up with drive wheel engaged.
7. Keep tires at the pressure in pounds per square inch (psi) recommended by the manufacturer as indicated on the side of the tire. Do not exceed the recommended (psi) rating, speed rating, or load rating as found on tire. Call Newton Crouch Inc. with any questions.



8. **DANGER: Check daily – wheel lugs and nuts, welds, hitch, hitch bolts at clevis, and hitch pin. Replace as needed. Change clevis hitch bolts every six months.**



9. **WARNING:** Keep your load as balanced as possible. An unbalanced load can cause your sprayer to tip over in curves or inclines.



10. **DANGER:** Do not disconnect sprayer unless it has proper tongue balance, and on flat surface with no bystander under the sprayer. An unbalanced load may cause sprayer to fall on rear and will cause injury or damage. After checking balance, always check the tongue jack and block wheels to secure. Disconnect the sprayer and store properly.



11. Do not come in contact with metal edges.
12. **DANGER:** There is no backup alarm provided on the sprayer. Be sure not to have any bystanders in area when backing due to blind spots.



13. **WARNING:** Avoid coming in contact with stop, pinch points, or pressure areas when operating manual engage handle. Also, never engage when bystander is in the operating area of the stop, pinch points, or pressure areas.



14. **WARNING:** Spring tension is required to put booms in stored position and spring tension is on boom when releasing. Always have control of booms when storing and releasing; use safety chains to hold. **Do NOT allow anyone in the path of the boom when closing or releasing the boom.** Contact with the boom will cause personal injury.

E. WORK AREA

1. Clear the area of bystanders and do not engage power source when people are within 100 feet of the sprayer when operating. Do not allow children to play on or around the sprayer.
2. Clear the operator's area of foreign material. Make sure the sprayer is free of grease or other materials that could cause slips and/or falls.

F. WORK TERRAIN

1. Be familiar with the area where you will be using the sprayer. Know the clearances required for the sprayer in the work area, both side and overhead clearances. Watch for holes, rocks, and hidden hazards.
2. Do not operate on steep slopes. Operate up and down – not across – intermediate slopes. Avoid sudden starts and stops as sprayer can turn over.

H. SAFE DRIVING PRACTICES



WARNING: Sprayer is for field use only and may not meet required laws for transport on public roads

1. Surge brakes and lights are Newton Crouch Inc. options. These options are installed only at the request of the customer. It is the customer's responsibility to know their local requirements.
2. Check local laws for all highway brakes, lighting, and marking requirements.
3. Drive at a safe speed relative to the local conditions. Ensure that your speed is low enough for an emergency stop.
4. Reduce speed prior to turns to reduce the risk of overturning.

I. PROPER MAINTENANCE

Follow the Maintenance Schedule outlined on the inside back cover and read the operation section.

1. Do not operate a sprayer that is defective or has missing parts. Make sure that all recommended maintenance procedures are completed before operating the sprayer and all shields and guards are correctly installed.
2. Check all controls regularly and adjust as necessary.
3. Periodically check all nuts and bolts for tightness, especially wheel hub, wheel nuts, and rim hardware.

J. SERVICE SAFETY

1. Do not service the sprayer while the power unit is running, or while sprayer is in motion.
2. All service should be performed in presence of another individual in case of an emergency or accident.
3. Remove hydraulic pressure by operating the control lever(s) to all positions with the power unit shut off.
4. Never work on tires, wheels, hubs, bearings, spindles, etc. without having the sprayer supported and blocked securely.
5. Have tires mounted and dismounted by tire professionals.

K. REPLACEMENT PARTS

1. Where replacement parts are necessary for periodic maintenance and servicing, use only Newton Crouch Inc. replacements to restore your equipment to original specifications.
2. Newton Crouch Inc. is not responsible for installation of non-approved parts and /or accessories and damages that may result from their use.

L. HYDRAULIC SAFETY (if applicable)

NOTE: The spreader uses high-pressure fluids for operation. Use Safety Equipment

1. Make sure that all components in the hydraulic system are clean and in good condition, and connections are tightened properly.
2. Immediately replace any worn, cut, abraded, flattened or crimped hoses and/or steel lines.
3. **Wear proper hand and eye protection when searching for a high-pressure hydraulic leak.** Use a piece of wood or cardboard as a backstop to isolate and identify a leak. Never use your fingers or hands to search for leaks.

4. Prior to repairs, shut off the engine and allow cooling. Relieve system pressure by actuating control levers with engine shut off before loosening any hydraulic line or connection.
5. Loosen connections slowly, keeping hands and fingers clear of loosened fittings.
6. Do not attempt any makeshift repairs to the hydraulic lines, fittings, or hoses by using tape, clamps, or cements. Such repairs will fail suddenly, creating a hazardous and unsafe condition.
7. **If injured by escaping hydraulic fluid, seek medical attention immediately.** Serious reactions or infections can quickly result.
8. When working with hydraulic lines, remember these lines are under pressure and the oil may be hot. Eye protection is recommended in case of residual pressure. Inspect all hydraulic cylinders and hoses prior to use. All components must be in good condition and be routed clear of moving parts.



Follow safety precautions as listed above.

