

SERVICE MANUAL

**CR6090 / CR7090 / CR8080 /
CR8090 / CR9090**
Tier 4a
Combine

Part number 84561155

1st edition English

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INTRODUCTION

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Basic instructions - Important notice regarding equipment servicing

CR6090 [YBG115106 -], CR6090 NA, CR8080 NA, CR9090 [YBG115106 -] NA, CR7090 [YBG115106 -] NA, CR8090 [YBG115106 -] NA

All repair and maintenance work listed in this manual must be carried out only by qualified dealership personnel, strictly complying with the instructions given, and using, whenever possible, the special tools.

Anyone who performs repair and maintenance operations without complying with the procedures provided herein shall be responsible for any subsequent damages.

The manufacturer and all the organizations of its distribution chain, including - without limitation - national, regional, or local dealers, reject any responsibility for damages caused by parts and/or components not approved by the manufacturer, including those used for the servicing or repair of the product manufactured or marketed by the manufacturer. In any case, no warranty is given or attributed on the product manufactured or marketed by the manufacturer in case of damages caused by parts and/or components not approved by the manufacturer.

The information in this manual is up-to-date at the date of the publication. It is the policy of the manufacturer for continuous improvement. Some information could not be updated due to modifications of a technical or commercial type, or changes to the laws and regulations of different countries.

In case of questions, refer to your NEW HOLLAND AGRICULTURE Sales and Service Networks.

International symbols

CR6090, CR8080, CR9090 NA, CR7090 [YBG115106 -] NA, CR7090, CR8090 [YBG115106 -] NA, CR8090

As a guide to the operation of the machine, various universal symbols have been utilized on the instruments, controls, switches, and fuse box. The symbols are shown below with an indication of their meaning.

	Thermostat starting aid		Radio		PTO		Position Control
	Alternator charge	KAM	Keep alive memory	N	Transmission in neutral		Draft Control
	Fuel level		Turn signals		Creeper gears		Accessory socket
	Automatic Fuel shut-off		Turn signals -one trailer		Slow or low setting		Implement socket
	Engine speed (rev/min x 100)		Turn signals -two trailers		Fast or high setting		%age slip
	Hours recorded		Front wind-screen wash/wipe		Ground speed		Hitch raise (rear)
	Engine oil pressure		Rear wind-screen wash/wipe		Differential lock		Hitch lower (rear)
	Engine coolant temperature		Heater temperature control		Rear axle oil temperature		Hitch height limit (rear)
	Coolant level		Heater fan		Transmission oil pressure		Hitch height limit (front)
	Tractor lights		Air conditioner		FWD engaged		Hitch disabled
	Headlamp main beam		Air filter blocked		FWD dis-engaged		Hydraulic and transmission filters
	Headlamp dipped beam		Parking brake		Warning!		Remote valve extend
	Work lamps		Brake fluid level		Hazard warning lights		Remote valve retract
	Stop lamps		Trailer brake		Variable control		Remote valve float
	Horn		Roof beacon		Pressurised! Open carefully		Malfunction! See Operator's Manual
			Warning ! Corrosive substance				Malfunction! (alternative symbol)

Foreword

CR6090 [YBG115106 -] NA, CR8080 [YBG115106 -] NA, CR9090 [YBG115106 -] NA, CR9090 NA, CR7090 [YBG115106 -] NA, CR7090, CR8090 [YBG115106 -] NA, CR8090

Soil, air, and water are vital factors of agriculture and life in general. When legislation does not yet rule the treatment of some of the substances required by advanced technology, sound judgment should govern the use and disposal of products of a chemical and petrochemical nature.

NOTE: *The following are recommendations that may be of assistance:*

- Become acquainted with and ensure that you understand the relative legislation applicable to your country.
- Where no legislation exists, obtain information from suppliers of oils, filters, batteries, fuels, antifreeze, cleaning agents, etc., with regard to their effect on man and nature and how to safely store, use, and dispose of these substances.
- Agricultural consultants will, in many cases, be able to help you as well.

Helpful hints

- Avoid filling tanks using cans or inappropriate pressurized fuel delivery systems that may cause considerable spillage.
- In general, avoid skin contact with all fuels, oils, acids, solvents, etc. Most of them contain substances that may be harmful to your health.
- Modern oils contain additives. Do not burn contaminated fuels and or waste oils in ordinary heating systems.
- Avoid spillage when draining off used engine coolant mixtures, engine, gearbox and hydraulic oils, brake fluids, etc. Do not mix drained brake fluids or fuels with lubricants. Store them safely until they can be disposed of in a proper way to comply with local legislation and available resources.
- Modern coolant mixtures, i.e. antifreeze and other additives, should be replaced every two years. They should not be allowed to get into the soil, but should be collected and disposed of properly.
- Do not open the air-conditioning system yourself. It contains gases that should not be released into the atmosphere. Your NEW HOLLAND AGRICULTURE dealer or air conditioning specialist has a special extractor for this purpose and will have to recharge the system properly.
- Repair any leaks or defects in the engine cooling or hydraulic system immediately.
- Do not increase the pressure in a pressurized circuit as this may lead to a component failure.
- Protect hoses during welding as penetrating weld splatter may burn a hole or weaken them, allowing the loss of oils, coolant, etc.

Safety rules

CR6090, CR8080 [YBG115106 -], CR8080 NA, CR9090 [YBG115106 -], CR9090 NA, CR7090, CR8090

Personal safety



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 death or injury.

Throughout this manual you will find the signal words DANGER, WARNING, and CAUTION followed by special instructions. These precautions are intended for the personal safety of you and those working with you.

Read and understand all the safety messages in this manual before you operate or service the machine.

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

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

 CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

FAILURE TO FOLLOW DANGER, WARNING, AND CAUTION MESSAGES COULD RESULT IN DEATH OR SERIOUS INJURY.

Machine safety

NOTICE: Notice indicates a situation which, if not avoided, could result in machine or property damage.

Throughout this manual you will find the signal word Notice followed by special instructions to prevent machine or property damage. The word Notice is used to address practices not related to personal safety.

Information

NOTE: Note indicates additional information which clarifies steps, procedures, or other information in this manual.

Throughout this manual you will find the word Note followed by additional information about a step, procedure, or other information in the manual. The word Note is not intended to address personal safety or property damage.

Safety rules - Personal safety

CR6090, CR8080, CR9090 [YBG115106 -] NA, CR7090 [YBG115106 -] NA, CR8090 [YBG115106 -] NA

Carefully study these precautions, and those included in the external attachment operators manual, and insist that they be followed by those working with and for you.

1. Thoroughly read and understand this manual and the attachment Operator's Manual before operating this or any other equipment.
2. Be sure all people and pets are clear of the machine before starting. Sound the horn, if equipped, three times before starting engine.
3. Only the operator should be on the machine when in operation. Never allow anyone to climb on to the machine while it is in motion. If the machine is equipped with an Instructors Seat, this must only be used for training purposes. Passengers must not be allowed to use the Instructors Seat.
4. Keep all shields in place. Never work around the machine or any of the attachments while wearing loose clothing that might catch on moving parts.
5. Observe the following precautions whenever lubricating the machine or making adjustments.
 - Disengage all clutching levers or switches.
 - Lower the attachment, if equipped, to the ground or raise the attachment completely and engage the cylinder safety locks. Completing these actions will prevent the attachment from lowering unexpectedly.
 - Engage the parking brake.
 - Shut off the engine and remove the key.
 - Wait for all machine movement to stop before leaving the operators platform.
6. Always keep the machine in gear while travelling downhill.
7. The machine should always be equipped with sufficient front or rear axle weight for safe operation.
8. Under some field conditions, more weight may be required at the front or rear axle for adequate stability. This is especially important when operating in hilly conditions or/when using heavy attachments.
9. Always lower the attachment, shut off the engine, set the parking brake, engage the transmission gears, remove the key and wait for all machine movement to stop before leaving the operators platform.
10. If the attachment or machine should become obstructed or plugged; set the parking brake, shut off the engine and remove the key, engage the transmission gears, wait for all machine or attachment motion to come to a stop, before leaving the operators platform to removing the obstruction or plug.
11. Never disconnect or make any adjustments to the hydraulic system unless the machine and/or the attachment is lowered to the ground or the safety lock(s) is in the engaged position.
12. Use of the flashing lights is highly recommended when operating on a public road.
13. When transporting on a road or highway, use accessory lights and devices for adequate warning to the operators of other vehicles. In this regard, check local government regulations. Various safety lights and devices are available from your NEW HOLLAND AGRICULTURE dealer.
14. Practice safety 365 days a year.
15. Keep all your equipment in safe operating condition.
16. Keep all guards and safety devices in place.
17. Always set the parking brake, shut off the engine and remove the key, engage the transmission gears, wait for all machine or attachment motion to come to a stop, before leaving the operators platform to service the machine and attachment.
18. Remember: A careful operator is the best insurance against an accident.
19. Extreme care should be taken in keeping hands and clothing away from moving parts.

Personal safety

CR6090, CR8080 [YBG115106 -], CR8080 NA, CR9090 [YBG115106 -], CR9090 NA, CR7090, CR8090

⚠ WARNING

Maintenance hazard!

Before you start servicing the machine, attach a DO NOT OPERATE warning tag to the machine in a visible area.

Failure to comply could result in death or serious injury.

W0004A

Attach a DO NOT OPERATE (TAG) to the machine in an area that is clearly visible whenever the machine is not operating properly and/or requires service.

Complete the tag information for the "REASON" the tag is attached by describing the malfunction or service required. Validate the reason for attaching the tag by signing your name in the designated area on the tag.

The tag should only be removed by the person who signed and attached the tag, after validating the repairs or services have been completed.

(A)		(D)
(B)	<p>See Other Side</p>	(E)
(C)	<p>CNH Part Number 87358697</p> <p>Printed in U.S.A.</p>	(F)

REASON

Signed by _____

87358697 1

Tag Components

- A. DO NOT REMOVE THIS TAG! - (Warning) The tag should only be removed by the person who signed and attached the tag, after validating the repairs or services have been completed.
- B. See Other Side - (Reference to additional information on opposite side of the tag.)
- C. CNH Part Number - (Request this part number from you Service Parts Dealer to obtain this DO NOT OPERATE tag.)
- D. DO NOT OPERATE - (Warning!)
- E. REASON - (Area for describing malfunction or service required before operation.)
- F. Signed by - (Signature area - to be signed by the person validating the reason for installation of the tag.)

Safety rules

CR6090 [YBG115106 -], CR6090 NA, CR8080 NA, CR9090 [YBG115106 -] NA, CR7090 [YBG115106 -] NA, CR8090 [YBG115106 -] NA

**CALIFORNIA
PROPOSITION 65 WARNING**

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

Battery post, terminals and related accessories contain lead and lead compounds.

Wash hands after handling

BT09A213 1

Safety rules

CR6090 [YBG115106 -], CR6090 NA, CR8080 NA, CR9090 [YBG115106 -] NA, CR7090 [YBG115106 -] NA, CR8090 [YBG115106 -] NA

Important notice to operators

Your machine may be equipped with special guarding or other devices in compliance with local legislation. Some of the guarding or safety devices require active use by the operator.

Check local legislation on the usage of this machine.

Accident prevention

Farm accidents can be prevented with your help.

No accident prevention program can be successful without the wholehearted cooperation of the person who is directly responsible for the operation of the equipment.

To read accident reports from all over the country is to be convinced that a large number of accidents can be prevented only by the operator anticipating the result before the accident is caused and doing something about it.

It is said that "The best kind of safety device is a careful operator who with care and mature consideration can save more lives and limbs than any accident prevention program which is not adhered to".

Further in this chapter you will find a list of the most important safety precautions.

Take time to read and follow the instructions and furthermore, be careful!

Some pictures in this manual may show the safety guarding open or removed to better illustrate a particular feature or adjustment.

Ensure to close or replace all guards before operating the machine.

General and operating safety

Most farm machinery accidents can be avoided by the observance of a few simple safety precautions.

1. The machine must only be used by a skilled operator familiar with all the controls and harvesting techniques on cultivated land with slopes up to maximum **26 % (15 °)** uphill and downhill.
2. Do not permit anyone other than the operator to ride on the machine.
3. Before starting the engine, ensure everyone is clear of the machine.
4. Warn bystanders by sounding the horn several times.
5. Keep children away from and off the machine at all times.
6. No-one should be standing on the ladders when the machine is moving.
7. When driving on public roads, observe traffic regulations, adapt your speed to road and traffic conditions and ensure that all lights and other safety mechanisms on the machine (if they are required) are fitted and work properly. The grain tank must be empty when driving on the road. Ensure that the unloading tube is locked in its closed position.
8. Ensure that both brake pedals are locked together when travelling on public roads.
9. Ensure the hazard warning signs provided are installed at the front and the rear of the machine and use the rotating amber traffic warning beacon(s) (if equipped) when driving on public roads to indicate the vehicle is of abnormal size and is slow-moving.
10. Do not brake abruptly to avoid tipping of the machine.
11. Do not exceed **20 km/h (12.5 mph)** when driving downhill. If necessary, change into a lower gear before starting the descent.
12. Never travel at high speed in crowded areas.
13. Avoid making turns at high speed.

14. When driving on public roads, either with the grain header loaded on a trailer and attached to the rear of the machine, or with the grain header still attached to the machine (provided local legislation allows), always be aware and conscious of its size.
15. Before operating the machine ensure that all safety guards are installed.
16. Check the wheel nuts torque as described in MAINTENANCE.
17. Do not enter the grain tank while the machine engine is running. With engine stopped, use a wooden clearing club should the grain tank unloading auger become bridged. Take utmost care not to be pulled into the grain tank in case un-bridging is required.
18. Do not attempt to clean, lubricate or carry out any adjustments on the machine while it is in motion or while the engine is running.
19. Never leave the operator's platform without first disengaging the machine drive mechanism, lowering the header, stopping the engine, applying the park brake and removing the ignition key.
20. Do not work under the machine header unless it is securely blocked and/or the header safety latch is engaged.
21. Do not work around the machine in loose clothing that might catch in any of the moving parts.
22. Keep hands away from moving parts of the machine.
23. Keep the fire extinguisher within easy reach of the operator. Ensure to replace it by a similar type of extinguisher or have it checked or refilled after every usage and/or date of expiry.
24. Do not step on the grain tank extensions, covers, or the cab roof.
25. Machine dust can cause "farmer's lung" disease. It may also contain harmful spraying residues. Keep the cab door and window closed during operation. Wear a dust mask when cleaning the accumulated dust and debris on the machine.

Hydraulic system safety

- Hydraulic oil leaking under pressure can penetrate the skin and cause infection or other injury. To prevent personal injury:
 - Relieve all pressure before disconnecting fluid lines.
 - Before applying pressure, make sure all connections are tight and components are in good condition.
 - Never use your hand to check for suspected leaks under pressure. Use a piece of cardboard or wood for this purpose.
 - If injured by leaking fluid, seek medical attention immediately.
- The hydraulic hoses and fittings on your machine meet engineering specifications for the particular function. When replacing damaged, blown or worn hoses or fittings, use only manufacture authorized service parts.
- Care in hydraulic hose installation is a must:
 - Make sure pressure is relieved before starting installation procedure.
 - DO NOT kink or twist a hose, failure may occur.
 - Properly route the hose.
 - Have a certified hydraulic technician install the hose.
 - Remove air from the hydraulic system after installing any hydraulic component.
- Periodically check hydraulic system for leaks or damage. check for:
 - Leaks at hose fitting or in hose.
 - Damaged hoses and/or fittings.
 - Kinked, crushed, flattened, hard blistered, heat cracked, charred, twisted, soft or loose covered hoses.
 - Corroded or damaged fittings.
 - Leaking ports.
 - Excessive dirt and debris around hoses and/or fittings.
 - Damaged or missing hose retaining clamps, guards, shields, etc.

- DO NOT stand on or use a hose as a step. DO NOT pull or apply external forces to the hose. The hose may fail and cause injury.
- Keep all persons away from the working area. Mechanisms controlled by fluid power can become hazardous if a hose fails. Lifted mechanisms can fall to the ground, machine steering may fail, etc.
- Stay clear of a pressurized hose assembly that has blown apart. Hose fittings can be thrown off at high speed and a loose hose can whip around with great force.
- Hydraulic fluid can reach high temperatures. Allow fluid to cool before servicing the system.
- Escaping fluid under pressure may form a mist or fine spray which can flash or explode upon contact with an ignition source.
- Vibration can reduce hose service life. Make sure all retaining clamps and/or devices are secured.
- Environmental conditions can cause hose and fittings to deteriorate. Inspect hydraulic hoses periodically. Replace worn or damaged hoses and fittings.

Safety requirements for fluid power systems and components - Hydraulics (European standard PR EN 982)

Flexible hose assemblies must not be constructed from hoses which have been previously used as part of a hose assembly.

Do not weld hydraulic piping.

When flexible hoses or piping are damaged, replace them immediately.

It is forbidden to modify a hydraulic accumulator by machining, welding or any other means.

Before removing hydraulic accumulators for servicing, the liquid pressure in the accumulator must be reduced to zero.

Pressure check on hydraulic accumulators shall be carried out by method recommended by the accumulator manufacturer.

Care must be taken not to exceed the maximum allowable pressure of the accumulator. After any check of adjustment there must be no leakage of gas.

Danger of death by electrocution!

Pay special attention to the overhead power lines. Make sure the machine has sufficient clearance to pass in all directions (also with raised or opened machine components). Also think of the radio aerial(s) or any other factory-fitted accessory or parts which may have been added afterwards.

Should a contact between the machine and an electric power line occur, then the following precautions must be taken: Stop the machine movement immediately, stop the engine and apply the hand-brake or parking brake.

Check if you can safely leave the cab or your actual position without direct contact with electric wires. If not, stay in your position and call for help. If you can leave your position without touching the lines, jump off the last step or support position to ensure that there is no contact between any part of your body and the ground at any time. Do not touch the machine afterwards until power to the lines has been shut off. When people approach the machine, warn them not to touch the machine but to ask the electric power supply company to shut off the power to the lines.

Engine safety

1. Keep the engine area clean of dust, chaff and straw to prevent the possibility of fires.
2. Never idle the engine in an enclosed area as harmful exhaust gases may build up.
3. Wear a suitable hearing protective device, such as ear muffs or ear plugs, if you are exposed to noise which you feel is uncomfortable.
4. The cooling system operates under pressure which is controlled by the radiator cap. It is dangerous to remove the cap while the engine is hot.

5. Switch off the engine and wait until it has cooled. Even then use extreme care when removing the cap. Cover the cap with a rag and turn it slowly to the first stop to allow the pressure to escape before removing the cap completely. Stand clear of the radiator opening as hot coolant may splash out.
6. Never add cold water to a hot radiator. Failure to follow these instructions may result in serious personal injury from hot coolant or steam blowout and/or damage to the cooling system or engine.
7. Antifreeze contains monoethylene glycol and other chemicals which are toxic if taken internally and can be absorbed in toxic amounts through repeated or prolonged skin contact. Follow these precautions when working with antifreeze:
8. Do not take antifreeze internally. If antifreeze is swallowed accidentally, obtain medical attention immediately.
9. Keep antifreeze in sealed containers out of reach of children, livestock or pets.
10. Periodically check the engine coolant and heater hoses for signs of wear, deterioration, weak sections and leaks to avoid hazardous situations and possible injury caused by hot coolant.
11. The fuel oil in the injection system is under high pressure and can penetrate the skin. Unqualified persons should not remove or attempt to adjust a fuel injection pump, injector, nozzle or any other part of the fuel injection system. Failure to follow these instructions may result in serious injury. If fuel is injected through the skin, medical assistance should be obtained.
12. Be very careful to avoid contact with hot engine oil. If the engine oil is extremely hot, allow the oil to cool to a moderately warm temperature for safe removal.
13. Do not handle a hot oil filter with bare hands.
14. Continuous and prolonged contact with used engine oil may cause skin cancer. Protect your skin by wearing heavy plastic gloves. If oil gets onto the skin, wash promptly with soap and water.

Diesel fuel safety

1. Under no circumstances should gasoline, alcohol or blended fuels be added to diesel fuel. These combinations can create an increased fire or explosive hazard. In a closed container, such as a fuel tank, such blends are more explosive than pure gasoline. Do not use these blends.
2. Never remove the fuel tank cap or refuel with the engine running or hot. Refuel the machine only when the engine has been turned off. Do not smoke or use a naked flame when refuelling or when standing near fuel tanks.
3. Maintain control of the fuel filler pipe nozzle when filling the tank.
4. Do not fill the fuel tank to capacity. Allow room for expansion.
5. Wipe up spilled fuel immediately.
6. Always tighten the fuel tank cap securely.
7. If the original fuel tank cap is lost, replace it with an NEW HOLLAND AGRICULTURE cap. A non-approved, proprietary cap may not be safe.
8. Keep equipment clean and properly maintained.
9. Do not drive equipment near open fires.
10. Never use fuel for cleaning purposes.

Battery safety

⚠ WARNING

Explosion hazard!

Batteries emit explosive gases. Always ventilate when using in an enclosed area or when charging.

Keep the battery away from sparks, open flames, and other ignition sources.

Failure to comply could result in death or serious injury.

W0369A

⚠ WARNING

Battery acid causes burns. Batteries contain sulfuric acid. Battery electrolyte contains sulfuric acid. Contact with skin and eyes could result in severe irritation and burns. Always wear splash-proof goggles and protective clothing (gloves and aprons). Wash hands after handling. Failure to comply could result in death or serious injury.

W0120A

The essential precautions listed below must be observed:

- Do not use an open flame to check the electrolyte level. Keep sparks, flames and lighted tobacco away.
- Do not produce sparks with cable clamps when charging the battery or starting the engine with a slave battery.
- Wear eye protection when working near batteries.
- Wear eye protection and gloves if removing the battery cover plugs.
- Provide ventilation when charging or using in an enclosed space.
- Ensure the vent plugs are correctly installed and tight.

If the electrolyte comes into contact with the skin, eyes or is taken internally, treat as follows:

- Skin: Flush with cold water.
- Eyes: Flush with cold water for 10 minutes and get prompt medical attention.
- Internal: Call a doctor immediately.

Fire and explosion prevention

- Due to the flammable nature of the crop materials encountered, fire risks are high. This risk can be minimized by frequent removal of accumulated crop material from the machine and checking for overheated machine components. If oil leaks appear, re-torque bolts or replace gaskets as necessary.
- Remove all trash or debris from the machine each day. Especially check the engine area and exhaust system.
- Sparks or flame can cause the hydrogen gas in a battery to explode. To prevent an explosion do the following:
 - When disconnecting the battery cables, disconnect the negative (—) cable first; when connecting the battery cables, connect the negative (—) cable last.
 - When connecting jumper cables to start the engine, use the procedure shown in this manual (see Auxiliary Battery connections in this manual).
 - Do not short circuit the battery posts with metal items.
 - Do not weld, grind or smoke near a battery.
- Sparks from the electrical system or engine exhaust can cause an explosion and fire. Before you operate this machine in an area with flammable dust or vapors, use good ventilation to remove the flammable dust or vapors.
- Use nonflammable cleaning solvent to clean parts.
- A fire can cause death or injury. Always have fire extinguisher near or on the machine. Make sure the fire extinguishers are serviced according to the manufacturers instructions.
- If a fire extinguisher has been used, always recharge or replace the fire extinguisher before operating the machine.
- Keep the cooling system clean and maintain the correct coolant level.
- Make sure that you DO NOT store oily rags or other flammable materials on the machine.
- Engine fuel can cause an explosion or fire. Do not fill the fuel tank with the engine running; if you are near an open fire; or if you are welding, smoking, etc.
- If the machine has an oil, fuel or hydraulic leak, always repair the leak and clean the area before operating.
- Check the electrical system for loose connections or frayed insulation. Repair or replace the loose or damaged parts.
- Before welding or using a torch on the machine, clean the area to be repaired.

Wheels and tires

The life and performance of the tires depends largely upon maintaining the correct pressure. Keep the tires inflated to the pressures given in SPECIFICATIONS.

Check the wheel nuts torque daily during the first week of operation and thereafter on a weekly basis.

The wheel nut torque is given in SPECIFICATIONS.

Whenever preparing to jack-up the machine, park on a level, firm surface and securely block the drive tire opposite the side to be lifted, both in front and rear.

Personal safety

CR6090 [YBG115106 -], CR8080 [YBG115106 -] NA, CR9090 [YBG115106 -] NA, CR7090 [YBG115106 -] NA, CR8090 [YBG115106 -] NA

⚠ WARNING

Maintenance hazard!

Before you start servicing the machine, attach a DO NOT OPERATE warning tag to the machine in a visible area.

Failure to comply could result in death or serious injury.

W0004A

Failure to comply to the following messages could result in death or serious injury.

- Always keep safety and informational decals clean and visible. Replace decals that are damaged, lost, painted over or can not be read.
- When assembling, operating or servicing the machine, wear protective clothing and personal safety devices that are necessary for the particular procedure. Some personal safety devices that may be necessary are protective shoes, face and/or eye protection, hard hat, heavy gloves, filter mask and hearing protection.
- Do Not wear jewelry or loose fitting clothing that may get caught in moving parts. Keep hands, feet, clothing and hair away from moving parts.
- Never attempt to clear obstructions or objects from the machine while the engine is running.
- Always stop the engine and remove the key from the key switch when leaving the operator's seat or the machine.
- When servicing the machine, always have the machine on a firm level surface.
- If shields or guards are removed or opened for service, always replace shields or guards before operating the machine. Never operate machine with missing or open shields or guards.
- Keep the area used for servicing the machine clean and dry. Wet or oily floors are slippery. Wet spots can be dangerous when working with electrical equipment. Be sure all electrical outlets and tools are properly grounded.

Safety rules

CR6090 [YBG115106 -], CR8080 [YBG115106 -] NA, CR9090 [YBG115106 -] NA, CR7090 [YBG115106 -] NA, CR8090 [YBG115106 -] NA

Header Safety Stop

⚠ WARNING

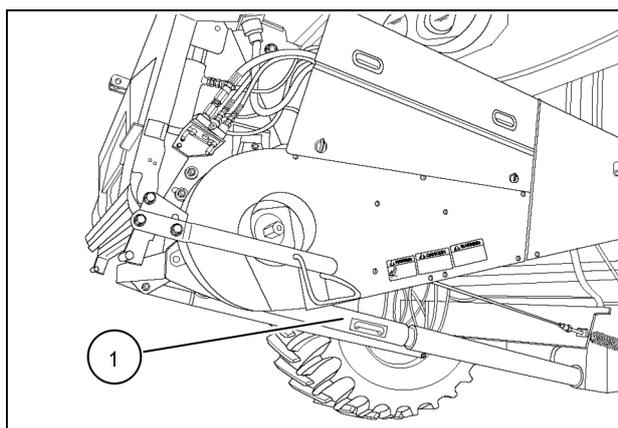
Avoid injury! Always do the following before lubricating, maintaining, or servicing the machine.

1. Disengage all drives.
2. Engage parking brake.
3. Lower all attachments to the ground, or raise and engage all safety locks.
4. Shut off engine.
5. Remove key from key switch.
6. Switch off battery key, if installed.
7. Wait for all machine movement to stop.

Failure to comply could result in death or serious injury.

W0047A

The left-hand cylinder of the feeder is fitted with a header safety stop (1) which must be lowered onto the cylinder rod to prevent accidental lowering of the header.



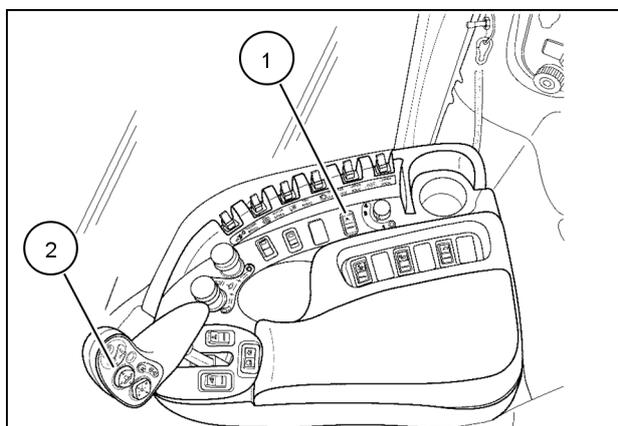
83060925 1

To engage or disengage the header safety stop it is necessary to lift the feeder to its maximum height.

To do this, proceed as follows:

1. Select field mode using the field/road mode selector switch (1).
2. Move the feeder up by pressing on the top of header height rocker switch (2) on the MFH until the header stops near its maximum height.
3. Release the switch and press again for a minimum of **1.5 s**. The header will now move quickly until its maximum height.
4. Place the header safety stop over the cylinder rod.

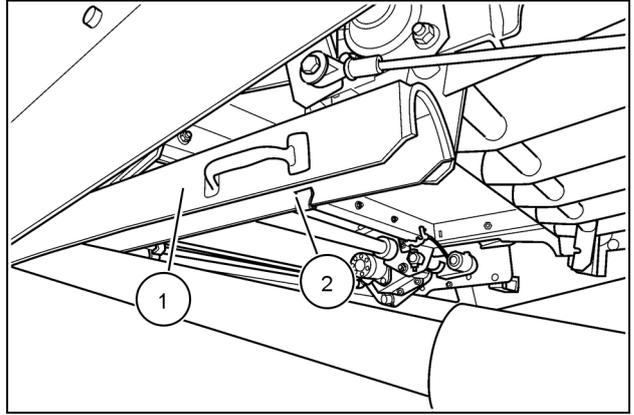
NOTICE: Headers with adjustable reel height can come very close to the cab windshield when the header is raised. Be cautious when lifting the header to its maximum height.



73074504 2

INTRODUCTION

When not in use, the header safety stop (1) must be stored with storage latch (2) .



10021813 3

NOTICE: Do not use header safety stop (1) as a support for the header when travelling along public roads otherwise damage may occur to the cylinder.

Safety rules

CR6090, CR8080 [YBG115106 -], CR8080 NA, CR9090 [YBG115106 -], CR9090 NA, CR7090, CR8090

⚠ WARNING

Maintenance hazard!

Before you start servicing the machine, attach a DO NOT OPERATE warning tag to the machine in a visible area.

Failure to comply could result in death or serious injury.

W0004A

1. Follow the maintenance schedule with regard to the machine servicing intervals. Remember that the machine requires minor attention from time to time. Also remember that the time taken on maintenance will greatly extend the life of the machine. Take the necessary precautions not to spill any oil, fuel, grease or coolant.
2. Service the machine on a firm level surface.
3. DO NOT attempt to remove material from any part of the machine, clean, lubricate or carry out any adjustments on the machine while it is in motion or while the engine is running.
4. Keep hands, feet and/or garments away from moving parts. Check that all rotating parts are correctly guarded.
5. Never work under the attachment without first ensuring that the straw elevator hydraulic cylinder safety latch is engaged or that it is securely supported on wooden blocks. Raised equipment and/or loads can fall unexpectedly and crush persons underneath. Never allow anyone to enter the area underneath raised equipment during operation.
Unsupported hydraulic cylinders can lose pressure and drop the equipment causing a crushing hazard. Do not leave equipment in a raised position while parked or during service, unless securely supported.
6. Always use suitable jack stands when carrying out maintenance on the traction or the steering axle. Only jack up or lift the machine at the points indicated in this manual.
7. Keep the machine, particularly the brakes and steering, maintained in a reliable and satisfactory condition to ensure your safety and compliance with legal requirements.
Regularly check the efficiency of the brakes and replace the brake pads before they are totally worn out.
8. Stop the engine, remove the key and switch off the battery switch before disconnecting or connecting electrical connections.
9. Any leakage of hydraulic oil or fuel under pressure may cause severe harm, so always use a shield, goggles and gloves when tracing oil or fuel leaks
DO NOT use your hand to check for leaks. Use a piece of cardboard or paper.



ZICON10DIA001 1

INTRODUCTION

10. Never construct flexible hose assemblies from hoses which have been previously used as part of a hose assembly.
11. Never weld to the piping.
12. When flexible hoses or pipings are damaged, replace them immediately.
13. Always replace worn or frayed belts before they fail.
14. Disconnect the alternator wires and the battery cables before carrying out any electrical welding on the machine. In addition, attach the earth cable of the electric welder as close as possible to the area to be welded.
15. Remove all tools from the machine after carrying out any lubrication, maintenance or repair work. Keep area used for servicing the machine clean and dry. Clean up spilled fluids. Also, make sure that all components have been securely tightened and all guards properly fitted. Replace or repair damaged guards immediately. Never operate the machine with shields removed.
16. Jack-up or lift the machine only at the jack or lift points indicated in this manual.
17. The air conditioning system contains gases that are harmful to the environment when released into the atmosphere. Service, repair or recharging must be performed only by a trained service technician.
18. Adhere to all recommendations that are mentioned in this manual such as service intervals, torques, lubricants, etc.
19. Replace damaged or worn tubes, hoses, electrical wiring, etc.
20. Engine, transmission, exhaust components and hydraulic lines may become hot during operation. Take care when servicing such components. Allow surfaces to cool before handling or disconnecting hot components. Wear protective equipment when appropriate.

General specification - General Welding

CR6090, CR8080, CR9090 [YBG115106 -] NA, CR7090 [YBG115106 -] NA, CR8090 [YBG115106 -] NA

⚠ WARNING

Explosion hazard!

Batteries emit explosive gases. Always ventilate when using in an enclosed area or when charging.

Keep the battery away from sparks, open flames, and other ignition sources.

Failure to comply could result in death or serious injury.

W0369A

Use a 7013 or 7011 welding rod or wire that meets the following American Welding Society (AWS) specifications: ER80S-D2, ER70S-6 or E70C-M6-H4.

NOTICE: ALWAYS disconnect the battery (both terminals) before welding on any part of the machine. Failure to do so may cause damage to sensitive electrical components.

NOTICE: Locate the welding ground as close as possible to the area to be welded. Do not allow the ground current to pass through any roller type bearing. Arcing inside the roller bearing can result in severe machine damage.