

CASE IH

CT5050

CT5060

CT5070

CT5080

TECHNICAL INSTALLATION MANUAL



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INTRODUCTION

This manual is designed to assist Dealer and Case IH personnel with the installation of the CT SERIES combine harvesters.

It is based around the “5 Point Plan” whereby the installer explains the important points of the unit. Starting at point 1 – “rear of unit” – travelling in anti clockwise direction, finishing at point 5 – “cab”.

Chapters Point One to Point Five of this booklet correspond with the relevant point on this 5-point plan and contain a diagram with the important components for discussion having a location number. Each location is detailed in the following way:

LOCATION	DESCRIPTION	OPERATION	SERVICE
2	Engine Oil Filler	-	Section 3, pages 14 to 16
<p>The engine oil and filter(s) should be replaced after the first 50 operating hours, then every 300 hours or annually thereafter.</p> <p>NOTE: Refer to the inside of the Operator's Manual back cover for the correct oil specification.</p>			

LOCATION NUMBER:	Location of component
DESCRIPTION:	Description of component
OPERATION:	Section and page of Operator's Manual where the operation of the component is explained.
SERVICE:	Section and page of maintenance section of Operator's Manual where service of the component is explained

This manual should be used as a “Quick Reference Guide” to aid the installer to discuss the important points of the unit.

All relevant information to the operation and maintenance of this product is comprehensively explained in the Operator's Manual. It is important that reference is constantly made to the Operator's Manual throughout the installation to ensure its use is promoted to the customer.

PRE INSTALLATION

Prior to delivering the new product to the customer, it is very important that the following is carried out.

Completing the checklist will ensure the installer is fully prepared to deliver and install the unit in a professional manner, thereby enabling the customer to operate his recent purchase with optimum results.

Installation Checklist

Ensure that:

1. The Customer Profile has been reviewed, and discussed with the Salesman.
2. "Pre Delivery Inspection" has been reviewed, and corrective action has been taken on the faulty items detected; the "Pre Delivery Inspection Certificate" section of the After Sales Portfolio (If available) has been completed and signed.
3. Technical Installation Manual and Operator's Manual have been read and fully understood to be able to provide a professional presentation.
4. The "Product" and "Your Case IH Dealer" sections of the After Sales Portfolio (If available) are completed.
5. Unit is in excellent condition.
6. The Product is ready for transportation.
7. Appointment confirmed, and the location for delivery and installation agreed.
8. There is sufficient fuel for operating the unit during installation.
9. The Operator's Manual and After Sales Portfolio (If available) are within the unit.

SAFETY PRECAUTIONS

Personal safety is of utmost importance whilst operating this product. During its installation, full emphasis must be made to the precautionary statements and safety decal location.

In order to assist the installer with this important subject, the “precautionary statements” information from the Operator’s Manual has been included for ease of reference. The safety decal location and details are outlined at the start of each point of the 5-point plan.

LEGAL OBLIGATIONS

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

Therefore, check local legislation on the usage of this machine.

SAFETY REQUIREMENTS FOR FLUID POWER SYSTEMS AND COMPONENTS - HYDRAULICS (EUROPEAN STANDARD PR EM 982)

Flexible hose assemblies must not be constructed from hoses that 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.

SAFETY PRECAUTIONS

Farm accidents can be prevented with your help

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

To read of 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, "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 programme which is not adhered to".

In this section, you will find a list of the most important safety precautions.

CAUTION: *This symbol is used throughout this manual whenever your personal safety is involved.*

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.

PRECAUTIONARY STATEMENTS

Throughout this Manual you will see text in Italics, preceded by the words **NOTE**, **ATTENTION**, **IMPORTANT**, **CAUTION**, **WARNING** or **DANGER**. Such text has the following significance:

Personal safety

Throughout this manual and on machine decals, you will find precautionary statements ("**NOTE**", "**ATTENTION**", "**IMPORTANT**", "**CAUTION**", "**WARNING**", and "**DANGER**") followed by specific instructions. These precautions are intended for the personal safety of you and those working with you. Please take the time to read them.

CAUTION: *The word "CAUTION" is used where a safe behavioural practice according to operating and maintenance instructions and common safety practices will protect the operator and others from accident involvement.*

WARNING: *The word "WARNING" denotes a potential or hidden hazard which could possibly cause serious injury. It is used to warn operators and others to exercise due care and attention to avoid a surprise accident with machinery.*

DANGER: *The word "DANGER" denotes a forbidden practice in connection with a serious hazard.*

FAILURE TO FOLLOW THE "CAUTION", "WARNING", AND "DANGER" INSTRUCTIONS MAY RESULT IN SERIOUS BODILY INJURY OR DEATH.

Machine Safety

NOTE: *This text stresses a correct operating technique or procedure.*

ATTENTION: *This text warns the operator of potential machine damage if a certain procedure is not followed.*

IMPORTANT: *This text informs the reader of something that he needs to know to prevent minor machine damage if a certain procedure is not followed.*

PRECAUTIONARY STATEMENTS

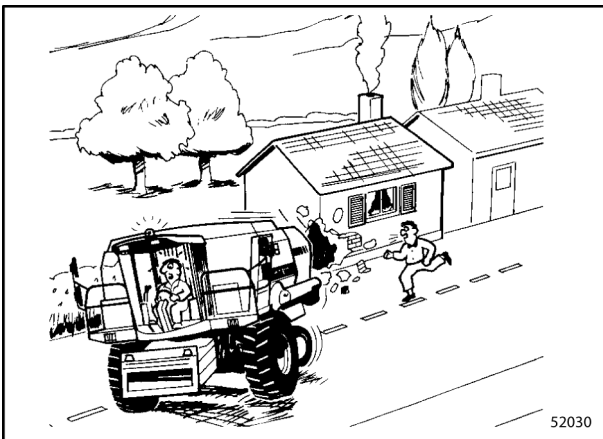
Most farm machinery accidents can be avoided by the observance of a few simple safety precautions.

General and Operating Safety

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, and maximum 36% (19°) sideways [provided good even ground and sufficient tire adherence conditions exist].
2. 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.

3. Ensure that both brake pedals are locked together when travelling on public roads.

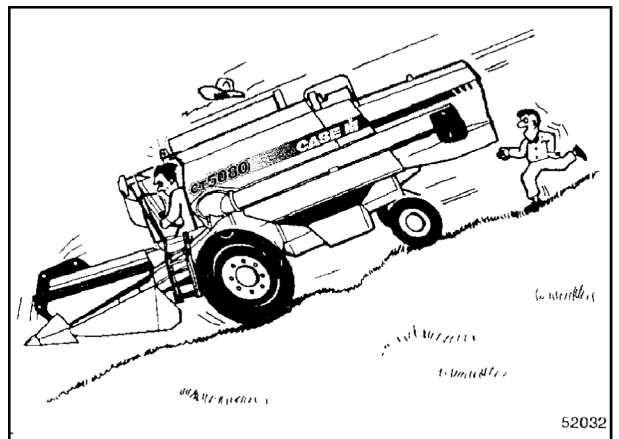


4. Ensure the hazard warning signs provided are installed at the front and the rear of the combine and use the rotating amber traffic warning beacon(s) when driving on public roads to indicate the vehicle is of abnormal size and is slow-moving.
5. Raise and lock the ladders when travelling on public roads. No one should be standing on the ladders when the machine is moving.

6. Do not permit anyone other than the operator to ride on the combine.



7. Do not brake abruptly to avoid tipping of the machine.
8. Do not exceed 20 km/h when driving downhill. If necessary, change into a lower gear before starting the descent.

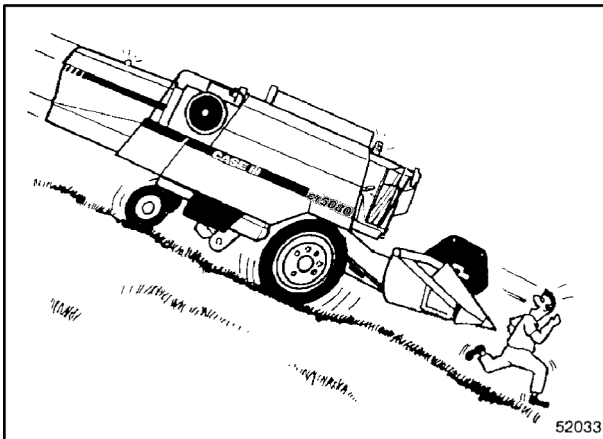


9. Before operating the combine ensure that all safety guards are installed.
10. Before starting the engine, ensure everyone is clear of the combine.

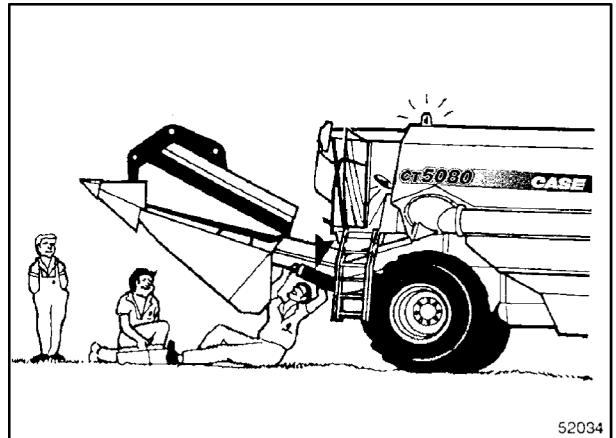
Warn bystanders by sounding the horn several times.

SAFETY PRECAUTIONS

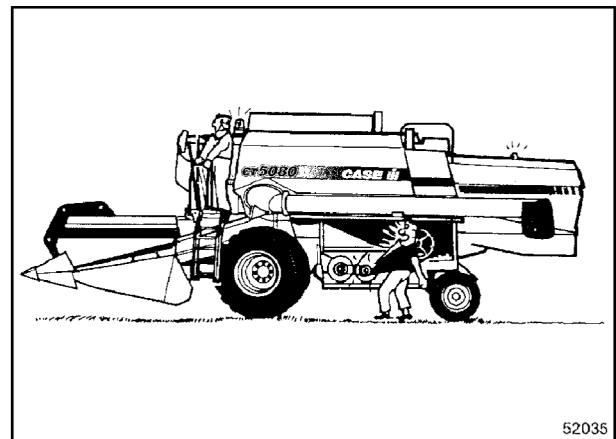
11. Keep children away from and off the combine at all times.
12. Check the wheel nuts torque as described in Section 5 - ADJUSTMENTS AND MAINTENANCE. Of the Operator's manual.
13. Do not enter the grain tank while the combine engine is running. Use a wooden clearing club should the grain tank unloading auger become clogged. Take utmost care not to be pulled into the grain tank in case unplugging is required.
14. Do not attempt to clean, lubricate or carry out any adjustments on the combine while it is in motion or while the engine is running.
15. For safety's sake never leave the operator's platform without first disengaging the combine drive mechanism, lowering the header, stopping the engine, applying the handbrake and removing the ignition key.



16. Do not work under the combine header unless it is securely blocked and/or the cylinder locking device is engaged.



17. Do not work around the combine in loose clothing that might catch in any of the moving parts.



18. Keep hands away from moving parts of the combine.
19. 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 expire.
20. Do not step on the grain tank covers or the cab roof.
21. When driving on public roads, either with the grain header loaded on a trailer and attached to the rear of the combine, or with the grain header still attached to the combine (provided local legislation allows), the blade should be safeguarded by means of a blade guard, available as an accessory (refer to the grain header's operating manual).

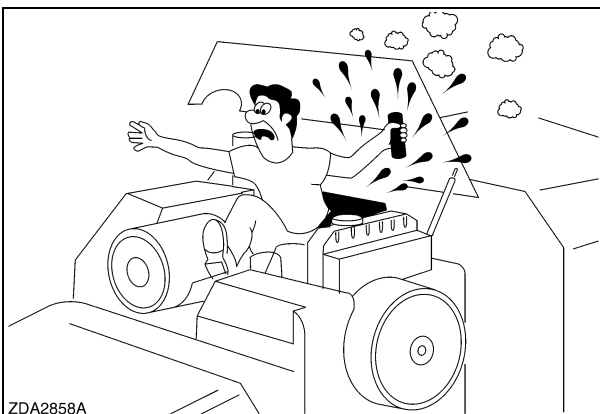
22. Combine dust can cause “farmer’s lung” disease. It may also contain nocive spraying residues. Keep the cab door and window closed during operation. Wear a dust mask when cleaning the air filters or accumulated dust in the combine.
23. Danger of death by electrocution! Pay special attention when working in the vicinity of overhead power lines. Make sure the machine has sufficient clearance to pass in all directions (even when parts of the machine are raised or open). 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 handbrake.
 - 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 defenders or earplugs, if you are exposed to noise that 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.
 - 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.
 - Never add cold water to a hot radiator.



- Failure to follow these instructions may result in serious personal injury from hot coolant or steam blow-out and/or damage to the cooling system or engine.
5. 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:
 - Do not take antifreeze internally. If antifreeze is swallowed accidentally, obtain medical attention immediately.
 - Keep antifreeze in sealed containers out of reach of children, livestock or pets.
 6. 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.
 7. 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.
 8. Do not handle a hot oil filter with bare hands.
 9. 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 combine fuel tank 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 approved 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 warning

- **CAUTION:** *The battery contains a sulphuric acid electrolyte which may cause severe burns and produce explosive gases. Avoid contact with the skin, eyes or clothing. Do not take internally. The essential precautions listed below must be observed:*

- *Do not use a naked 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.*
- *Provide ventilation when charging or using in an enclosed space.*
- *Ensure the vent plugs are correctly installed and tight.*

If the electrolyte is exposed to the skin, eyes or is taken internally, treat as follows:

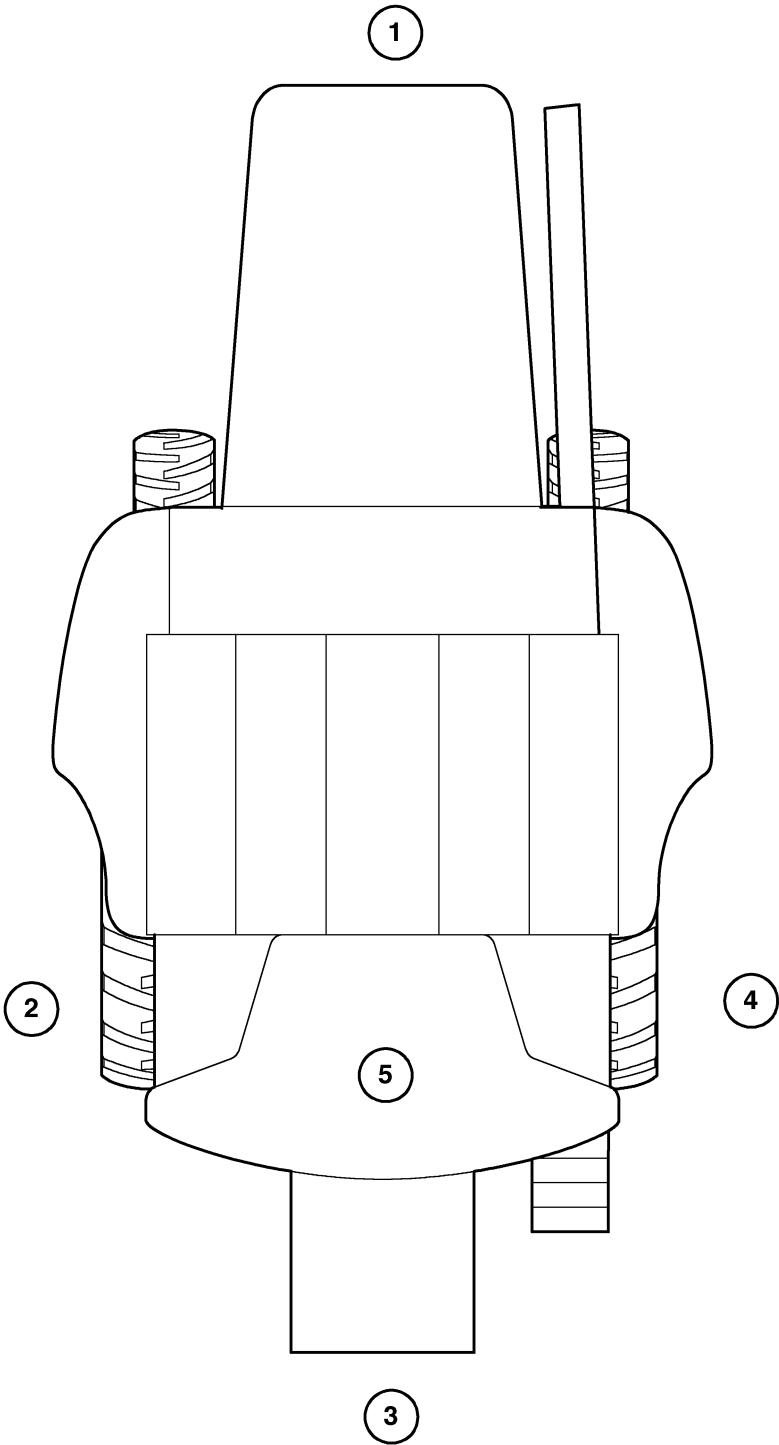
- Skin: Flush with cold water.
- Eyes: Flush with cold water for ten minutes and get prompt medical attention.
- Internal: Call a doctor immediately.

Wheels and Tyres

- The life and performance of the tyres depends largely upon maintaining the correct pressure. Keep the tyres inflated to the pressures given in Section 8 – SPECIFICATIONS of the Operator's Manual.
- Check the wheel nuts torque daily during the first week of operation and thereafter on a weekly basis.
- The wheel nuts torques are given in Section 8 - SPECIFICATIONS of the Operator's Manual.

COMBINE INSTALLATION

5 POINT PLAN



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