

CASE IH

JX1070U

JX1080U

JX1090U

JX1100U

Maxxima Tractors

TECHNICAL INSTALLATION MANUAL



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INTRODUCTION

This manual is designed to assist Dealer and Case IH personnel with the installation of the JX-U Maxxima tractors.

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
3	Brake Fluid Reservoir	-	Section 4, page 9
<p>The brake fluid reservoir must be visually checked when the brake fluid level low symbol and red warning light are displayed on the instrument cluster.</p> <p>WARNING: Use only the correct type of brake/clutch mineral oil. Mixing different types of fluid may cause damage to the internal hydraulic braking components and result in brake failure. Adhere to the instructions on the brake fluid container.</p> <p>NOTE: Refer to the Operator's Manual Section 4, page 55 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 Logbook (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 Logbook (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 Logbook (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.

SAFETY



This warning symbol points out important messages concerning your safety.

Read the following safety regulations carefully and follow the recommendations in order to avoid potential hazards and safeguard your health and safety.

In the Operator's Manual the symbol is accompanied by the following key-words:

- **CAUTION** – When the warning is to prevent potential damage to the machine, which could also put the operator's safety at risk.
- **DANGER** – This warning specifically indicates a potential danger to the user or to any other person directly involved.

Failure to observe the instructions preceded by the aforementioned key words (**CAUTION** and **DANGER**) may result in severe or fatal injury to the people involved.

Furthermore, the Operator's Manual also contains instructions in italics preceded by the terms **NOTE** and **WARNING**, with the following relevance in relation to machine protection:

- **NOTE** – Underlines the correct procedure or technique to be followed by the operator.
- **WARNING** – Informs the operator of the danger of damaging the machine if the specified procedure is not followed.

IMPORTANT WARNINGS

The machine is designed and produced exclusively for agricultural use.

All other use will be considered to be contrary to the use specified by CASE IH, who cannot be held liable for damage to property or the machine, or for personal injuries which may result.

Persons who risk improper use will therefore assume the responsibility for any consequences arising from such use.

Compliance with the instructions for use, maintenance and repairs described in the Operator's Manual, are the essential preconditions for the use specified by CASE IH.

The machine must only be used, serviced or repaired by personnel trained in the relevant working methods and safety regulations and who have been authorised to work on the machine.

The driver must also observe the rules concerning general safety and accident prevention, including the Highway Code when driving on public highways.

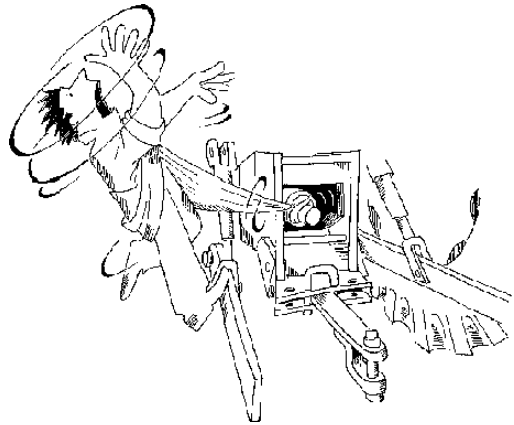
Any arbitrary modifications made to this machine will release CASE IH from any liability resulting from damage or injury.

CASE IH and all distribution organisations, inclusive of, but not restricted to, national, regional or local distributors, cannot be held liable for damage resulting from the malfunction of parts and/or components not approved by CASE IH.

Under no circumstances will a guarantee be issued for products made or sold by CASE IH that are damaged as a result of the malfunction of parts and/or components not approved by CASE IH.

WORKING SAFELY

- During the manufacturing of this tractor, every step has been taken to ensure safe operation. However, the best way to avoid accidents is to exercise caution at all times. Once the accident has already happened it is too late to remember what steps should have been taken.
- Read the Operator's Manual carefully before starting, using, carrying out maintenance, refuelling or performing any other type of operation on the tractor.
- The time spent reading the Operator's Manual will allow you to get to know your tractor, thereby saving time and effort. This will also help prevent accidents from taking place.
- Read all the safety decals on the machine and follow the instructions thereon before starting, operating, refuelling or carrying out maintenance on the machine. Promptly replace any decals that are damaged, lost or illegible. Clean the decals if they are covered by mud or debris.
- Remember that the tractor is exclusively designed for agricultural use. Any other use will require prior authorisation from CASE IH.
- It is advisable to keep a first aid kit on hand.
- The tractor must only be used by responsible personnel, trained in tractor use and authorised to operate the machine.
- Do not alter the injection system calibration in an attempt to increase maximum engine speed.
- Do not wear loose clothing that may be trapped in moving parts. Check that all rotating parts connected to the power take-off are correctly protected.



SAFETY PRECAUTIONS

- Do not alter the calibration of the pressure relief valves in the various hydraulic circuits (hydrostatic steering, hydraulic lift, auxiliary distributors, etc.).
- Avoid using the tractor in unsuitable physical conditions, stop work instead.
- Enter and leave the tractor carefully, using the steps and handles provided. Keep these fittings free of mud and debris.
- Always operate with the cab or roll bar correctly and securely fitted on the tractor: periodically check that the fittings are not loose and that all parts of the structure are free from any damage and deformation. Do not modify the roll bar by welding parts, drilling holes, etc., as this could adversely affect the rigidity of the structure.

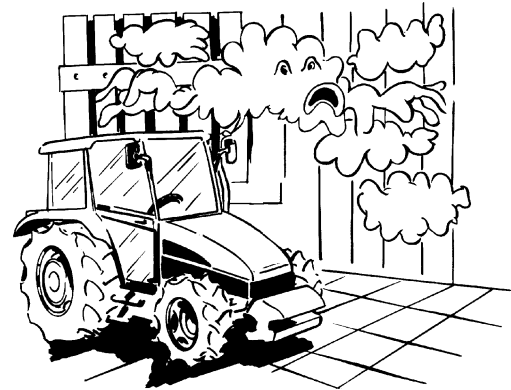
STARTING THE TRACTOR

- Before starting the engine, check that the handbrake is on and that the gears and power take-off are disengaged, even if the tractor is fitted with a start-up safety device. Never disconnect the start-up safety switch. If the switch does not work correctly, contact your local dealer for eventual repair operations.
- Before starting the engine, make sure that all attached implements are lowered to the ground.
- Before starting the engine, check that all covers and guards are correctly in position (roll bar, bonnet side panels, power take-off guard, front axle transmission shaft cover, etc.).

- Never start or manoeuvre the tractor unless seated in the driving position.



- Before moving the tractor, always check that the area is free of persons or obstacles.



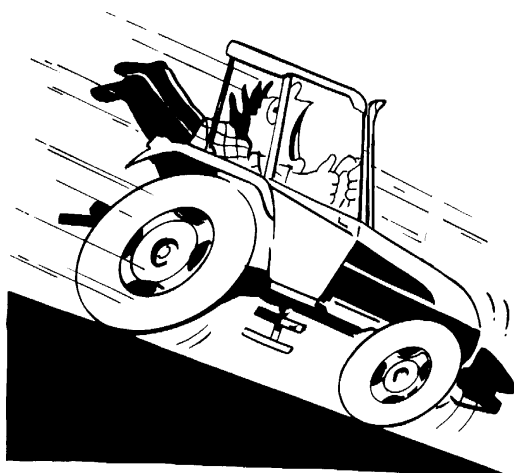
- Never run the engine in a closed space without ensuring adequate ventilation. Exhaust fumes are damaging to the health and can be lethal.

USING THE TRACTOR

- Select the most suitable wheel setting for the work in hand, i.e.: the setting that provides the best stability.

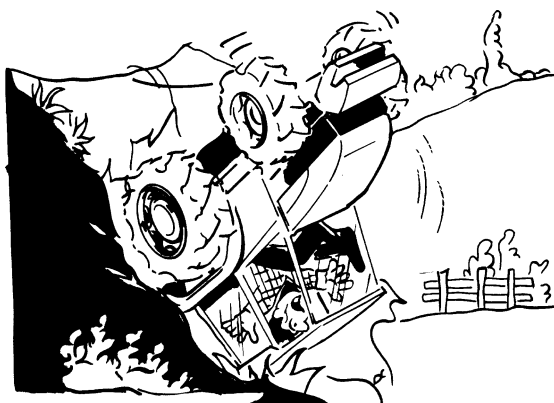


- Engage the clutch slowly: if engaged too quickly, especially when the tractor is getting out of a hole, ditch or operating on muddy ground or steep slopes, the tractor may overturn. Release the clutch immediately if the front wheels start to lift.



- When travelling downhill, keep the tractor in gear. Never release the clutch and never leave the gears in neutral.

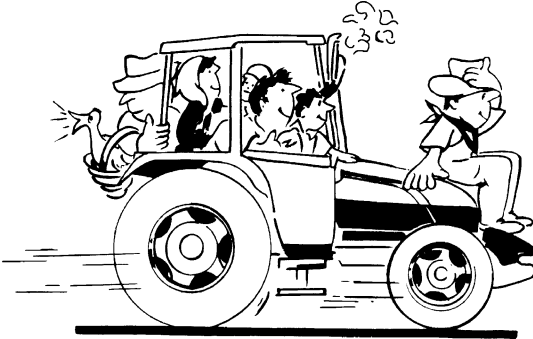
- When the tractor is moving, the operator must remain correctly seated in the driving position.
- Never get on or off the tractor while in movement.
- When using the brakes, press the pedal down slowly.
- Avoid taking bends at high speeds.
- Always use the tractor at a speed that will guarantee safe operation on the type of land being worked. When working on uneven ground, use maximum care to ensure proper stability.
- If you have to work with the tractor on a gradient, for example on hillsides, drive at moderate speed especially when taking bends



- Proceed with maximum caution when working with the wheels near the edge of ditches or slopes.
- When driving on public highways, observe the Highway Code

SAFETY PRECAUTIONS

- When driving, do not rest your feet on the brake or clutch pedals.



- Never carry passengers, not even inside the cab, unless the tractor is fitted with an approved extra seat.
- When driving on roads, connect the brake pedals using the plate provided. Braking when the pedals are not connected could cause the tractor to skid. Avoid excessive wear on the brakes by using engine braking.

TOWING AND TRANSPORT

- To guarantee tractor stability when moving, adjust the hitching device according to the trailer or implement to be used.
- Drive slowly when towing extremely heavy loads.
- For your own safety, do not tow trailers that are not fitted with an independent braking system.
- If the tractor is used to tow heavy loads, always use the hitching device and never hitch loads onto the lower arms or the top link of the three-point linkage. This may result in tipping or overturning.



- When towing, do not negotiate curves with the differential lock engaged as this may prevent you from steering the tractor.

USING IMPLEMENTS AND AGRICULTURAL MACHINERY

- Do not connect implements or machinery that require more power than can be generated by your tractor model.
- Never negotiate sharp curves with the power take-off under a heavy load; this may damage the universal joints on the transmission shaft connected to the power take-off.
- Never stand between the reversing tractor and the implement when hitching.

SAFETY PRECAUTIONS

- When using implements that require the tractor to be stationary with the engine running, keep the gear and range levers in the neutral position, apply the handbrake and use suitable wheel chocks.



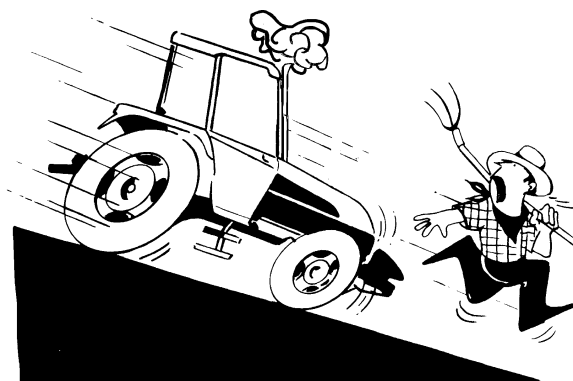
- Do not operate machines connected to the power take-off without first ensuring that the operating range of the machine is free of bystanders. Also check that all rotating parts connected to the power take-off shaft are correctly protected.
- Add rear ballast when using lifting equipment fitted to the front of the tractor.

STOPPING THE TRACTOR

- When the tractor is stationary, never leave connected implements in the raised position. All implements must be lowered before stopping the engine.
- Before leaving the driving position, move the gear lever to the neutral position, disengage the power take-off, apply the handbrake, stop the engine and engage the central clutch. Always remove the ignition key from the dashboard and close the cab door when leaving the tractor unattended.

- Park on flat surfaces, where possible, put the tractor into gear and apply the handbrake. On slopes, in addition to applying the handbrake, put the tractor in first gear when facing downhill. As an additional safety measure, use wheel chocks (available as an optional); this procedure is compulsory when parking with a trailer hitched.

! CAUTION: When using the *Dual Command (2 speed power shift)* with the tractor parked and the engine switched off, the shuttle lever must be moved to the reverse position.



SERVICING THE TRACTOR

! CAUTION: In the *Operator's Manual*, some illustrations show panels or covers removed in order to facilitate explanations. Never use the tractor without panels or guards in place.

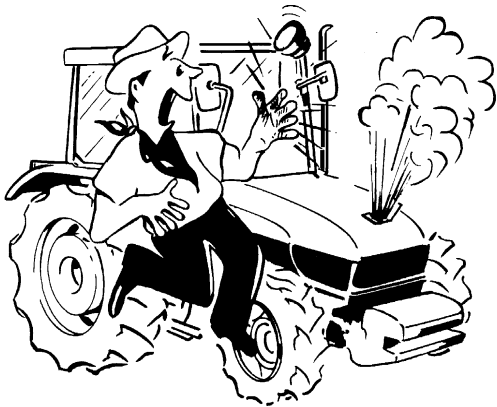
- Do not work on the tyres with unsuitable equipment or without the necessary experience. Incorrect tyre fitting may put your safety at risk. If in doubt, contact skilled personnel.
- When changing or storing tyres, make sure they are stacked correctly and cannot roll or topple over causing personal injury.

SAFETY PRECAUTIONS

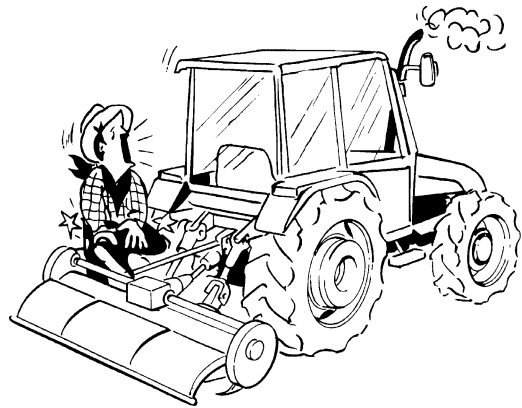
- Before removing any hydraulic lines, check that the system is not pressurised.



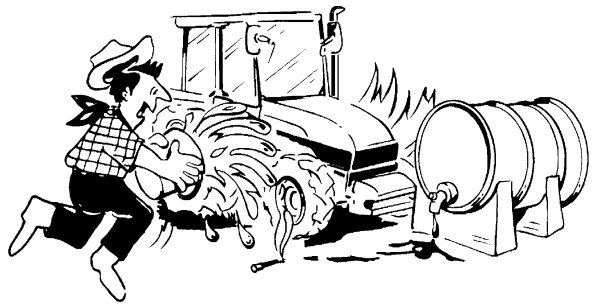
- Leaks of pressurised oil can cause serious injuries. When looking for leaks use the appropriate safety equipment: screens, safety glasses and gloves.
- Before touching any electrical components, disconnect the ground lead from the battery.



- Only remove the radiator cap after the engine has been allowed to cool. With the engine switched off, use a cloth to slowly unscrew the cap and release the pressure before completely removing the cap.



- Before inspecting, cleaning or carrying out maintenance on the tractor (or any implement connected to the tractor), always ensure that the engine is switched off, the gears are in neutral, the brakes are on, the power take-off is disengaged and that all moving parts are stationary.
- Do not fill up the fuel tank completely if the tractor is to work in extremely sunny conditions, as the fuel may expand and escape. If this occurs, dry up the spillage immediately.



- Always keep a fire extinguisher at hand.

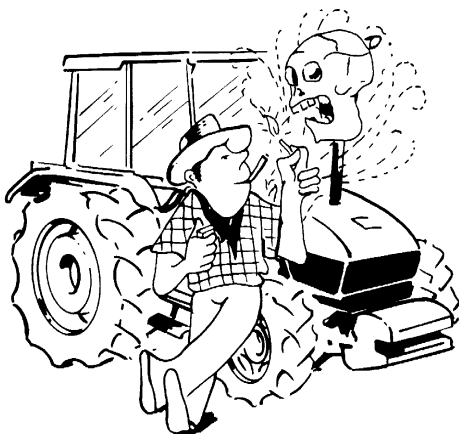
AIR-CONDITIONER

The air conditioning system is safe and can be used continuously without any risk. However, it is important to observe a few simple precautions, listed below, to avoid any risk of accident.

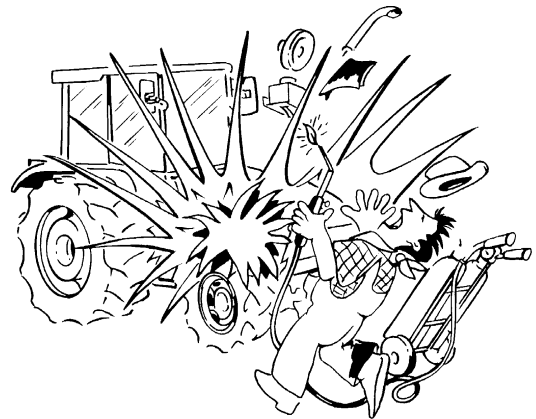
- It is advised never to personally attempt to adjust the system; any repair work should be the experienced technicians of the CASE IH Service Network.



- Never allow naked flames near the air conditioning system, as if the coolant is leaking, a lethal gas '**phosgene**' could be produced.



- The oil and coolant mixture is pressurised inside the air conditioning system. The loosening of any connections or handling of lines is therefore strictly forbidden. For the same reason, never unscrew the compressor oil level inspection cap for any reason.
- Do not allow the air conditioning system to approach any heat source, in order to prevent an explosion risk.



- Coolant can freeze the skin and, above all, the eyes. If an accident should occur, proceed as follows:
 - if coolant comes into contact with the eyes, wash immediately with a few drops of mineral oil, then continue washing thoroughly with a solution of boric acid and water (one teaspoon of acid in 1/4 of a cup of water) and consult a doctor at once;
 - freezing caused by coolant can be treated by gradually unfreezing the injured zone with cold water and then applying a grease based cream. Consult a doctor promptly.

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