

Farmall 110A
Farmall 130A
Tractor

OPERATOR'S MANUAL

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1 - GENERAL INFORMATION

Note to the Owner

General Information

This manual has been prepared to assist you in the correct procedure for running in, driving and operating your new machine, and for its maintenance. Read this manual carefully. Your machine is designed to be used in normal and customary agricultural applications.

If you require advice concerning your machine at any time, do not hesitate to contact your CASE IH dealer. He has factory trained personnel, genuine manufacturers' parts and the necessary equipment to carry out all your service requirements.

The specification are provided for your information and guidance. For further information concerning your machine and equipment, consult your CASE IH dealer.

All data given in this book is subject to production variations. Dimensions and weight are approximate only. The illustrations do not necessarily show machines in standard condition or imply that these features are available in all countries. For exact information about a particular machine, see your CASE IH dealer.

Your machine has been designed and built to give maximum performance, economy and ease of operation under a wide variety of operating conditions. Prior to delivery, the machine was carefully inspected, both at the factory and by your dealer, to ensure that it reaches you in optimum condition. To keep it in this condition and guarantee that its operation is problem-free, it is important that routine service procedures, as specified in the maintenance table on page 7-11, are carried out at the recommended intervals.

Operator's manual storage

The operator's manual supplied with your machine is an important source of information and should be stored safely.

The manual has been written specifically for your tractor so it is important that you make a note of the print number and issue date, which can be found on the cover. In the event the manual is lost or damaged it can be replaced with the correct version.

About this manual

This manual gives information for use of your machine, as intended and under the conditions foreseen by the manufacturer during normal operation and routine service and maintenance.

Read and understand it; keep it in good condition and always keep it in a safe place.

This manual does not contain all the information related to periodical service, converting and repairs to be carried out by CASE IH professional service personnel.

The Table of Contents page(s) are provided to have an overview of main manual's topics. A detailed alphabetic index is available at the end of this manual for locating specific items.

Normal operation

- Normal operation means the use of the machine for the purpose intended by the manufacturer by an operator familiar with the machine and the mounted or towed equipment and complying with the information for operation and safe practices, as specified by the manufacturer in this manual and by the decals on the machine and the equipment.
- Normal operation includes preparing and storing the machine, swinging components into and out of work position, adding and removing ballast, and connecting and removing accessories.
- Normal operation includes adjusting and setting up the machine and equipment, for the specific condition of the field and/or the crop.

Routine service

- Routine servicing and maintenance means activities that must be performed daily by an operator familiar with the machine's characteristics and in compliance with the routine servicing information and with safe practice, as specified by the manufacturer in this manual and by decals on the machine, in order to keep it working properly. The routine service includes activities such as filling up, cleaning, washing, topping up fluid, applying grease, and replacing consumable items such as bulbs.

Converting, periodical service and repair

- Periodic servicing means activities that must be performed at given intervals by trained personnel familiar with the machine's characteristics and in compliance with the periodic servicing information and with safe practice, as specified by the manufacturer in this manual and in other company literature, in order for the machine to keep to its expected working lifespan.
- Conversion means activities that must be performed by professional service personnel familiar with the machine's characteristics and in compliance with the conversion information, as specified by the manufacturer in this manual, as well as with other company instructions or literature, in order to prepare the machine for a specific configuration.

- Repair means activities that must be performed by professional service personnel familiar with the machine's characteristics and in compliance with the repair information, as specified by the manufacturer in the dealer's manual, in order to restore the machine to correct working order following a fault or reduced performance.

Cleaning the machine

When using a high pressure washer, do not stand too close to the machine and avoid directing the jet at electronic components, electrical connections, breathers, seals, filler necks, etc. Never direct a cold water jet at a hot engine or exhaust.

Failure to comply with these rules will render the warranty null and void.

Security

The pages in Section 2 list the precautions to be observed to ensure your safety and the safety of others. Read the safety precautions and follow the advice offered before operating the machine.

Replacement Parts

It should be pointed out that genuine parts have been examined and approved by the Company. Fitting and/or using non-genuine products could have negative effects on the design characteristics of your machine, thereby affecting its safety. The Company is not liable for any damage caused by the use of 'non-genuine' parts and accessories. Only genuine replacement parts should be

used. The use of non-genuine parts may invalidate legal approvals associated with this product.

Making any modifications to the machine is prohibited, without specific written authorization from the manufacturer's After Sales Service department.

Warranty

Your machine is warranted according to legal rights in your country and the contractual agreement with the selling dealer. No warranty shall, however, apply if the machine has not been used, adjusted and maintained as per the instructions given in this operator's manual.

Using Biodiesel

Before using biodiesel in your machine, refer to the information on page 7-5 as regards storing and using biodiesel.

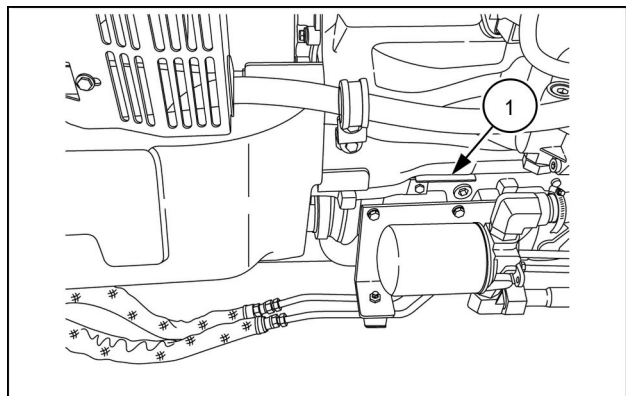
Tampering with the engine or fuel system

ATTENTION: Your machine's engine and the fuel system were designed and configured to meet the emissions standards required by the laws in your country or region. Dealers, customers, operators, and users are strictly prohibited from tampering with the machine's factory settings. Failure to comply with this rule invalidates the machine's warranty and could result in government fines, legal action, and possible confiscation of the machine until rework to original condition is completed. Engine maintenance and repairs must be done by an authorized technician only.

Part identification

The engine identification code is stamped on the left-hand side of the engine. Make a note of the code in the space below.

Engine identification code: _____



CUIL14TR00566AA 1

Product identification

Your machine and its main components are identified by codes. These codes facilitate identification of your machine. You must give them to your CASE IH dealer when requesting replacement parts or servicing. The following information indicates where the identification codes are stamped.

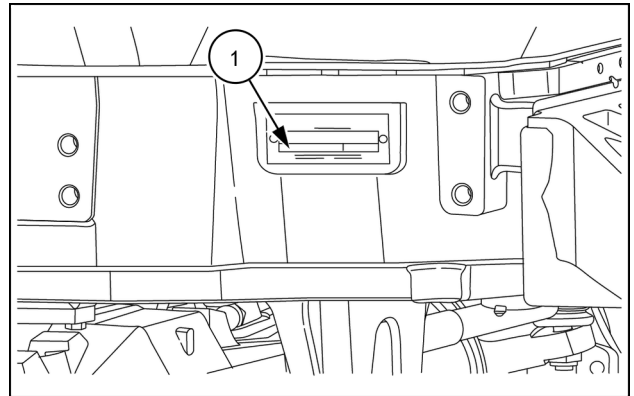
Machine identification plate

The plaque with the Product Identification Number (PIN) is on the right-hand side of the front axle support.



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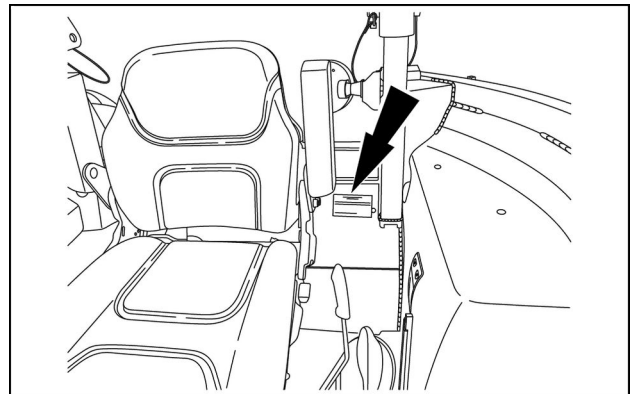
Identification plate **(1)** on the front axle support.



CUIL14TR00363AA 2

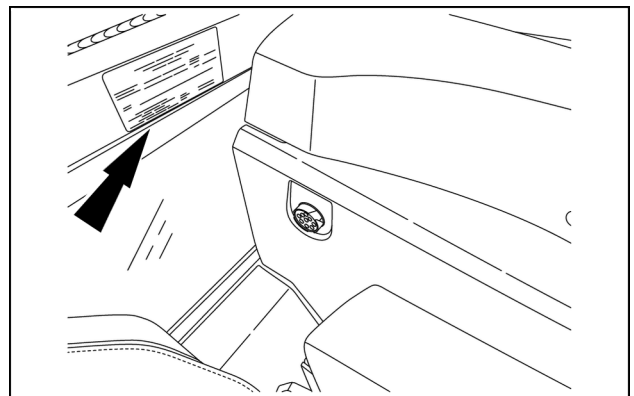
A plate in the rear of the cab/platform provides information about the Rollover Protective Structure (ROPS) and the maximum permissible weight of the machine.

Figure 3: Location for models without cab.



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Figure 4: Location for models with cab.



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Ecology and environment

Soil, air, and water quality is important for all industries and life in general. When legislation does not yet rule the treatment of some of the substances that advanced technology requires, sound judgment should govern the use and disposal of products of a chemical and petrochemical nature.

Familiarize yourself with the relative legislation applicable to your country, and make sure that you understand this legislation. Where no legislation exists, obtain information from suppliers of oils, filters, batteries, fuels, anti-freeze, cleaning agents, etc., with regard to the effect of these substances on man and nature and how to safely store, use, and dispose of these substances. Your CASE IH dealer can also provide assistance.

Helpful hints

- Avoid the use of cans or other inappropriate pressurized fuel delivery systems to fill tanks. Such delivery systems may cause considerable spillage.
- In general, avoid skin contact with all fuels, oils, acids, solvents, etc. Most of these products 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 you drain fluids such as used engine coolant mixtures, engine oil, hydraulic fluid, brake fluid, etc. Do not mix drained brake fluids or fuels with lubricants. Store all drained fluids safely until you can dispose of the fluids in a proper way that complies with all local legislation and available resources.
- Do not allow coolant mixtures to get into the soil. Collect and dispose of coolant mixtures properly.
- Do not open the air-conditioning system yourself. It contains gases that should not be released into the atmosphere. Your CASE IH dealer or air-conditioning specialist has a special extractor for this purpose and can recharge the system properly.
- Repair any leaks or defects in the engine cooling system or hydraulic system immediately.
- Do not increase the pressure in a pressurized circuit as this may lead to a component failure.

Run-in period of a new machine

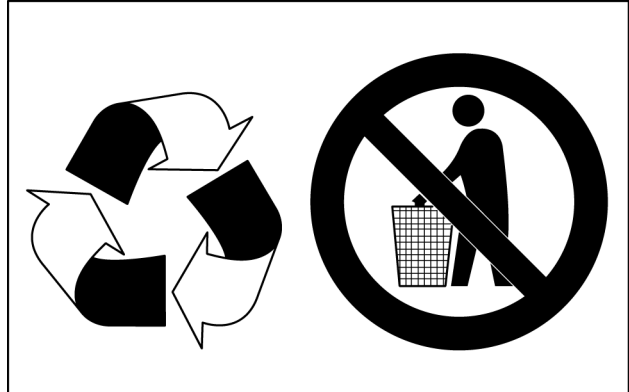
Your new machine will provide long and reliable service if given proper care during the first 50-hour running-in period and if serviced at the recommended intervals.

Run-in recommendations

Avoid overloading the engine. Operating in too high a gear under heavy load may cause excessive engine over-

Battery recycling

Batteries and electric accumulators contain several substances that can have a harmful effect on the environment if the batteries are not properly recycled after use. Improper disposal of batteries can contaminate the soil, groundwater, and waterways. CASE IH strongly recommends that you return all used batteries to a CASE IH dealer, who will dispose of the used batteries or recycle the used batteries properly. In some countries, this is a legal requirement.



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Mandatory battery recycling

NOTE: The following requirements are mandatory in Brazil.

Batteries are made of lead plates and a sulfuric acid solution. Because batteries contain heavy metals such as lead, CONAMA Resolution 401/2008 requires you to return all used batteries to the battery dealer when you replace any batteries. Do not dispose of batteries in your household garbage.

Points of sale are obliged to:

- Accept the return of your used batteries
- Store the returned batteries in a suitable location
- Send the returned batteries to the battery manufacturer for recycling

loading. Overloading occurs when the engine will not respond to a throttle increase.

Do not operate without a load on the engine. This can be as harmful to the engine as overloading. Vary the type of operation carried out so the engine is submitted to a mix of heavy and light loads during the running-in period.

Use the lower gear ratios when towing heavy loads and avoid continuous operation at constant engine speeds. Operating the tractor in too low a gear with a light load and high engine speed will waste fuel. Select the correct transmission ratio for each particular operation to save fuel and reduce engine wear.

Check the instruments and warning lights frequently and keep the radiator and oil reservoirs topped up to the recommended levels.

Fuel saving tips

1. Store fuel in properly cleaned, rust and contaminant free containers.
2. Always fill the fuel reservoir at the end of each day to reduce overnight condensation of moisture in the air, so as to avoid damage to the fuel system.
3. Fuel filters should be replaced as per recommended time schedule as the filtering capacity is not retained after this specified time. It may allow harmful contamination and damage the fuel injection system. Follow the maintenance schedule to drain the water from the filters and clean the supply pump filter.
4. Always use genuine fuel filters. See your CASE IH dealer.
5. Repair diesel leaks, if any, immediately.
6. Dirt particles that may enter the engine cause premature wear of lining and piston rings. This causes loss of power and excessive consumption of engine oil and fuel. Make sure that there are no leaks from the hoses and that the seal of the air filter chamber is in good condition. Keep the hose clamps tightened.
7. Follow the run-in procedure provided in this manual to achieve optimal performance of your tractor.
8. If you keep the engine running at idle speed unnecessarily for long periods, this wastes fuel.
9. Do not rest your foot on the clutch pedal as this will cause clutch slippage, loss of engine power and increased fuel consumption. Maintain the specified play in the clutch pedal.
10. Always drive the tractor in the proper gear. Use a lower gear to drive down a slope and use the brakes sparingly.
11. Maintain the proper tire pressures for field work as well as for roadwork. Refer the tyre pressure chart given in this manual. Worn out tyres cause wheel slippage and waste fuel. Either retread or discard the full set of tires if they are very worn. Adhere to tyre ballasting as and when required to reduce wheel slippage and fuel consumption.
12. Always use the appropriate implements to reduce diesel fuel wastage. Implements should be maintained in good condition, as usage of worn out implements will waste fuel.
13. Always plough length wise and plan your field run to reduce fuel consumption. Adjust the wheel gauge to suit the implement and avoid overlap when you work in the field.
14. Adjust the proper engine rotation when you work with equipment driven by the Power Take-Off (PTO). If you select the wrong rotation, it will result in excess fuel consumption.

Universal symbols

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.

	Heater plug for cold start		Turning signal		Power Take-Off (PTO)		Reaction control
	Alternator charging	KAM	Activated memory	N	Transmission in neutral		Accessories socket
	Fuel Level		Turn signals		Creeper selection		Implement socket
	Automatic fuel shut-off		Turn signals - one trailer		Low speed selection		% Percentage slip
	Engine speed (rpm x 100)		Turn signals - two trailers		High speed selection		Raising of the hydraulic lift
	Hour meter		Wind shield washer		Road speed		Rear hitch lower
	Engine Oil Pressure		Windscreen wash wipe		Differential Lock		Hydraulic lift height threshold
	Engine Coolant Temperature		Heating temperature control		Rear axle oil temperature		Hydraulic lift disabled
	Coolant Level		Cab recirculation fan		Trans Oil Pressure		Transmission filters and hydraulic filters
	Machine lights		Air conditioner		Auxiliary Front Wheel Drive (AFWD) operated		Remote control valve extension
	Main beam head		Air Filter Restriction		Warning!		Remote control valve command retraction
	Dip Beam	(P)	Parking brake		Danger warning lights		Remote control valve flotation
	Work lamps		Brake fluid level		Variable control		Malfunction! See Operator's
	Stop Lamp		Trailer brake		Pressurized! Open carefully		Malfunction! (alternative symbol)
	Horn		Warning! Corrosive substance		Position control		Brake fluid level
	Trans Oil Pressure						



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