

ARION 460-450-440-430-420-410

Operator's Manual

Original operator's manual

Validity of the operator's manual

This operator's manual is valid for the following tractors:

Description	Type	Tractor serial number	
		from	to
ARION 460-430	A32	A4300050	
ARION 420-410		A3200050	

The operator's manual describes the possible equipment for your tractor. The tractor's equipment is shown on the order confirmation.

Technical information

The technical specifications, dimensions and weights are provided on a non-binding basis. CLAAS reserves the right to modify them as part of technical development, subject to errors.

Appropriate use

CLAAS's ARION 400 range of tractors/farm tractors has been designed exclusively for professional use in line with the recognised rules governing farming practices and agricultural work.

The ARION 400 tractor has been designed and adapted to tow, push, move and carry the implements/equipment/loads authorised by the manufacturer, and to control certain implements or compact using implements (weights) authorised by the manufacturer as part of agricultural work.

The farm tractor must only be used, maintained and repaired by persons with a thorough knowledge of the tractor, who are aware of the possible risks. The tractor must only ever be used by qualified personnel who have been trained how to drive it. Always keep children away from the tractor and agricultural machinery.

Appropriate use also requires strict observance of the instructions contained in the operator's manual, as well as the operating, maintenance and repair regulations laid down by the manufacturer. When an implement or trailer is hitched to the tractor, always comply with the instructions in this operator's manual as well as the instructions in the operator's manual for the hitched implement or trailer. Do not use the tractor/machine or tractor/trailer assembly unless all these instructions have been followed.

Specific accident prevention instructions, as well as general rules concerning technical safety, health and safety regulations and the highway code, must be observed by the user and owner.

Any use other than that defined above will be considered inappropriate and will release the manufacturer from any liability in the event of damage or injury; the user alone will bear the risks resulting from such misuse.

You can obtain detailed, personalised information from CLAAS to ensure correct use in specific cases.

Inappropriate use

Any use not foreseen by the manufacturer shall be considered to be inappropriate, and therefore as misuse. The manufacturer accepts no responsibility in case of damage; such use is entirely at the user's own risk.

Examples of inappropriate use of CLAAS tractors and farm tractors from the ARION 400 range:

- Use of surfaces or spaces not defined as working or maintenance areas in the operator's manual.
- Failure to follow the information in the operator's manual when performing adjustment, cleaning or maintenance operations.
- Carrying out breakdown or maintenance work while the system is in operation and/or the engine is running.
- Non-compliance with the warnings on the tractor or in the operator's manual.
- Untrained persons carrying out maintenance or repair work.
- Unauthorised modifications to the tractor.
 - o Equipment modification
 - o Software modification or addition.
- Installation of unauthorised equipment.
- Use of replacement parts other than original CLAAS parts.
- Use of devices or equipment not authorised by the manufacturer.
- Use of implements or devices or equipment which are not compatible with each other.
- Use in sporting events.
- Exceeding the total technically authorised weight.
- Transporting persons outside of the seats intended for this purpose.
 - o Depending on the tractor equipment, a passenger seat may be used to transport one person.

European regulations

ARION 400 tractors put in circulation meet modified European Directive 2003/37.

For countries which do not form part of the European Union, respect the relevant applicable national prescriptions.

Safety and accident prevention instructions

This list is not exhaustive. Continually evaluate the risks taken in the work space.

- ▶ In all circumstances, respect the legislation relating to driving wheel-fitted farm tractors applicable in your country.
- ▶ Never exceed the maximum authorised speed. If necessary, consult the police or your insurance company for more information.
- ▶ The loads on the front and rear axles must not exceed the maximum authorised loads.
Maximum authorised weight
- ▶ Before any movement, check the tractor's brakes.
- ▶ Before any movement, check the braking efficiency of towed implements if these have a braking system.
- ▶ CLAAS tractors have been designed for farming applications. However, certain working environments likely to cause the tractor to tip over must be avoided (the following list is not exhaustive):
 - ▶ Unstable river banks.
 - ▶ Steep slopes.
- ▶ The doors must be securely closed when travelling on roads.
- ▶ Before travelling on the road:
 - ▶ Adjust the mirrors to optimise the field of vision.
 - ▶ Clean the mirrors if necessary.
- ▶ Make sure that the implement is hitched correctly and safely locked in position.
- ▶ Whenever possible, avoid using busy roads.
- ▶ When transporting equipment on a public road, use the warning device required by the highway code.
- ▶ Check that the signalling devices are operating correctly.
- ▶ The signalling devices must be clearly visible.
- ▶ Under no circumstances may the work lights be on when travelling on the road.
- ▶ Brake pedals must always be coupled when travelling on the road.
- ▶ Do not use the hand accelerator when the tractor is travelling on the road.
- ▶ Do not use the differential lock on roads or when cornering.
- ▶ Before travelling on the road, disengage the front and rear power take-off.
- ▶ Before travelling on the road, move hitched, mounted or semi-mounted implements to the transport position. If the implement has transport wheels, use them.
- ▶ The instructions on wearing the driver's and passenger's seat belt are set by the traffic regulations in the country of use. Comply with the regulations in force in the country where the tractor is used.
- ▶ When driving on rough roads or tracks, reduce your speed.
- ▶ Check that nobody is standing:
 - ▶ in the risk zone located between the tractor and the implement being carried/towed.
 - ▶ near the front/rear lifting areas of the tractor.
 - ▶ near the wheels before using the tractor.
 - ▶ in the deployment area of the implements hitched to the tractor.
- ▶ When the tractor is parked unintentionally or deliberately on a public road and represents a danger to traffic, it is essential to:
 - ▶ switch on the hazard warning lights.
 - ▶ place a warning triangle ahead of the danger zone (according to the regulations in force in the country where the tractor is used).
- ▶ Slow down before changing direction.
- ▶ Before exiting the tractor, lower the front and rear implements to the ground.
- ▶ When travelling downhill, always remain in gear: never declutch. The gear selected should be the same as would be used to climb an equivalent gradient.
- ▶ Always use implements which are in good condition, and suited to the power of the tractor and the type of work to be performed.

- ▶ Always use the tractor and hitched implements with the safety devices/protective equipment provided. The safety devices/protective equipment must be maintained in good condition and replaced if they are damaged or not fit for purpose.
- ▶ Always use personal protective equipment which is suited to the work to be performed (safety shoes, gloves, overalls, mask, boots, etc.).
- ▶ Extended exposure to a high noise level may cause hearing conditions, even deafness. To avoid these risks, wear hearing protection such as ear plugs.
- ▶ Ensure the tractor/implement assembly is kept a sufficient distance away from power lines.
- ▶ Each time the tyres are replaced or changed, it is necessary to:
 - ▶ Perform a new instrument panel calibration procedure to ensure that the speed limits set by the traffic regulations are observed.
Instrument panel calibration
 - ▶ Request new approval for tyres not originally provided for the model concerned.
- ▶ The following 3 conditions should be observed when hitching a trailer or implement:
 - ▶ The value limits authorised by the ladder hitch/clevis drawbar
Rear hitches
 - ▶ The maximum authorised tow weights are indicated on the tractor's identification plate.
Maximum authorised tow weights

These values are also found in the table detailing the tractor's specifications.
Tractor identification plate

- ▶ The value limits authorised by the country's traffic regulations.
- ▶ Above a certain size, the trailer or the towed implement hitched to the tractor must be equipped with a braking device.
- ▶ When using a trailer or towed implement equipped with an air or hydraulic braking system (for more information, please refer to the operator's manual for the hitched implement):
 - ▶ If the implement has a hydraulic braking system, connect the trailer's hydraulic braking hose to the hydraulic pressure coupler located at the rear of the tractor.
Trailer hydraulic brake
 - ▶ If the implement has an air braking system, connect the trailer's air braking hose(s) to the air coupling attachment(s) at the rear of the tractor.
Trailer air brake
- ▶ Check the compatibility of the pressure (hydraulic or air) supplied by the braking device of the tractor's trailer with the pressure accepted by the towed implement.
- ▶ Periodically check (or have checked) the condition of the brakes on towed implements hitched to the tractor (a towed implement with a faulty braking device will risk the safety of the trailer by overloading the tractor's braking device). CLAAS declines any liability in relation to the poor maintenance (or adjustment) of the braking device of the towed implement hitched to the tractor.
- ▶ When opening a component assisted by gas struts (doors, hatches, covers, steps, etc.), always pay close attention to the movement in order to prevent injuries.
- ▶ Before controlling an implement from the tractor, always consider:
 - ▶ the area in which the implement will be deployed/used,
 - ▶ the movements which will be performed by the implement.
- ▶ For safety reasons, pay close attention to the operations performed by the tractor and hitched implements. Stop the operations in progress immediately as soon as the movements performed:
 - ▶ are not/no longer those expected.
 - ▶ are likely to endanger the life/safety of a person.
- ▶ When a visual or audible warning occurs, repair/replace any damaged/fragile equipment as a preventive measure, independently of the maintenance intervals required.
- ▶ Do not open the engine bonnet when the engine is running.
- ▶ Under certain conditions of use (strong sunlight, particularly high external temperature, using the tractor with a heavy load, etc.), some parts of the tractor (hand rails, door handle, engine bonnet, exhaust duct protective grille, toolbox, tank cap, etc.) may reach high temperatures. Under such conditions, wear protective gloves in order to be able to touch potentially hot tractor parts.

- ▶ Apart from standard tractor maintenance, maintenance operations must be performed in a workshop by an approved CLAAS distributor. If this is not the case, the user runs the risk of the following:
 - ▶ Faults due to incorrect maintenance procedures.
 - ▶ Accidents due to a component being incorrectly tightened.
- ▶ If a tractor device enters defect mode, an error message appears on the CEBIS screen:
 - ▶ Stop the work in progress immediately.
 - ▶ Park the tractor in a safe location.
 - ▶ Switch off the engine.
 - ▶ Contact an approved CLAAS distributor.

Driving the tractor

- ▶ Do not enter or exit the tractor when it is in motion.
- ▶ Always respect the regulations in force in the country where the tractor is used.
- ▶ Control the load speed under all circumstances. Adapt the speed to the conditions of the environment in which the tractor is used.
- ▶ On journeys involving travelling downhill, use the engine brake and maintain a suitable speed.
- ▶ Consider the wheelbase and the inertia mass of hitched implements.
- ▶ Caution: risk of overturning.
- ▶ Do not turn sharply when working on slopes. Respect the maximum slope allowed for working.
Dimensions

- ▶ During a break in work, even if only brief, stop the engine and apply the handbrake.
- ▶ Consider the wheelbase and the inertia mass of hitched implements.
- ▶ Start turning in good time.
- ▶ Do not correct the tractor's steering suddenly when turning.
- ▶ When changing direction, observe traffic carefully on the left and right.
- ▶ When travelling with a trailer or a hitched implement, check the steering angle in order to prevent the implement from making contact with the tractor (for example, with the tractor tyres). In case of contact, decelerate the load immediately. If necessary, reverse the tractor and take the bend with a wider radius.
- ▶ With large steering angles, implements may protrude past the outer edge of the bend. Beware of any persons or obstacles on the edge of the road as well as traffic in the opposite direction.
- ▶ In the event of malfunctions on major safety components such as the steering or brakes:
 - ▶ Immobilise the tractor immediately in a safe location.
 - ▶ Switch off the engine.
 - ▶ Chock the wheels of the tractor.
 - ▶ Call an approved CLAAS distributor before using the tractor again.

Checking the condition of the tractor

Maintaining the tractor in the best possible condition, and adhering to the maintenance intervals (oil changes, level checks, services, adjustments and thorough cleaning) will allow the efficiency and safety of the tractor to be optimised when working.

Starting conditions

Check the following items first:

- ▶ High-temperature components:
 - ▶ Check that airborne particles (straw, grass, wood chips, etc.) do not accumulate in high-temperature areas.
 - ▶ Ensure debris is cleared from around the engine and the exhaust system.
 - ▶ For implements hitched on the front/rear or sides of the tractor, inspect and clean the areas where various types of material can accumulate.
- ▶ Brakes:
 - ▶ Check that the brakes work properly.
 - ▶ Check the operation of the handbrake and service brake.
 - ▶ Check that when the brakes are activated (service brakes or handbrake), the tractor's front axle is engaged (for tractors equipped with four-wheel drive).
- ▶ Steering:
 - ▶ Check the operation of the hydrostatic steering.
- ▶ Transmission:
 - ▶ Check the transmission oil level (especially if external auxiliary hydraulic systems are used).
- ▶ Power take-off:
 - ▶ Check that the power take-off shaft guard is fitted if the power take-off is not to be used.
- ▶ Hydraulic circuit:
 - ▶ Check the condition of the system (unions, pipes, hoses), particularly the hoses to the steering actuators with double-acting through-rods.
- ▶ Electrical circuit:
 - ▶ Check the condition of the electrical system (cables, headlights, indicator lights, hazard lights, warning beacons, windscreen wipers, etc.).
- ▶ Lighting - indicators:
 - ▶ All lighting and indicating equipment must not only be in working order, but must be fully visible; clean it if necessary.
 - ▶ Also check the operation of the cab's interior lighting.
 - ▶ Carry a spare set of bulbs.
 - ▶ Replace any defective element.

Check the general condition of the tractor

- ▶ Check for oil leaks or seepage.
- ▶ Check for any parts that have come loose, are poorly secured or are damaged, paying particular attention to protective devices.
- ▶ Check tyre inflation pressures and inspect for cuts or bulges in the sidewall.
- ▶ Check the efficiency of the service and parking brakes. If necessary, adjust the parking brake or have it adjusted by an authorised centre.
- ▶ Check that the power take-off shaft guard is fitted if the power take-off is not to be used.

Cleaning the tractor

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