

ARES 546 • 556 • 566
ARES 616 • 656 • 696

Use and Maintenance

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SAFETY

FOREWORD

CLAAS Tractors are designed and built to give you optimum service over many years. They are designed to provide the most comfortable and safe working conditions.

However, accidents can easily happen in agricultural work. It is important to know the dangers and how to avoid them.

We respectively draw your attention to certain aspects that merit constant attention (non exhaustive list).

PRECAUTIONS BEFORE STARTING

Caution is the best guarantee against any risk of accident.

The driver must be fully familiar with the tractor and must understand all the controls, their position and their purpose. This manual must be read carefully.

If the tractor is used by anybody other than the owner, he must be given all explanations required to allow him to work safely.

The driving position must be clean (instrument panel, steering wheel, floor and pedals).

Footsteps must be clean (no mud) to avoid slipping when climbing or descending.

Use the steps and handles provided when getting into or out of the tractor.

Before starting the engine, make sure that all controls are in the neutral position, particularly the power take-off lever.

Only run the engine in well ventilated areas.

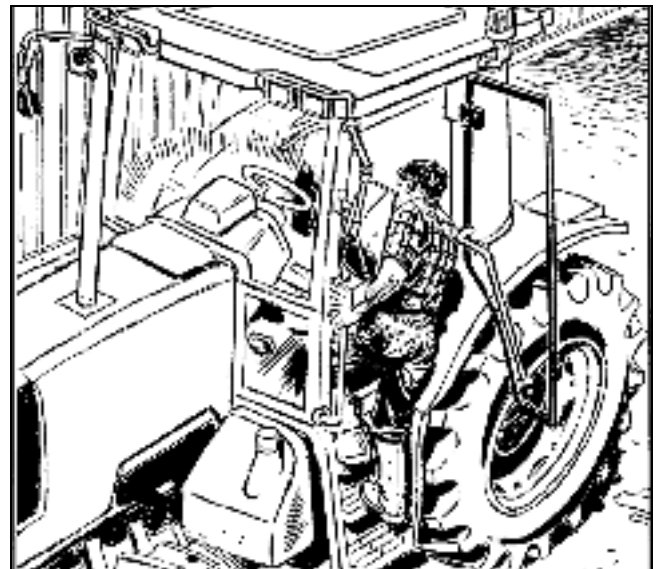
Make sure there is nobody nearby before starting the tractor.

Fully release the handbrake before starting.

Do not start work if the tractor is not working properly.



001hsn03



001hsn04



E - WARNING: This tractor must not travel at a speed greater than 30 km/h on public roads.

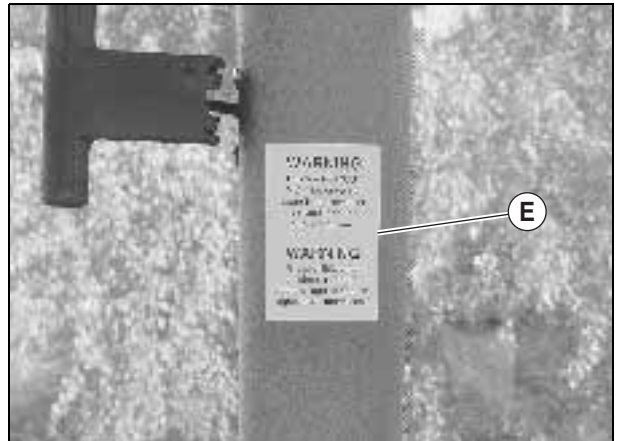
WARNING: It is forbidden to transport a child under 13 years of age on farm machinery.

F - WARNING:

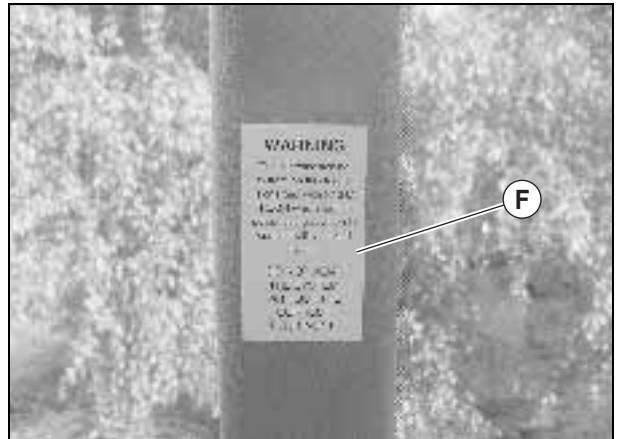
- This tractor's air conditioning is charged with freon R 134 A, which is a toxic gas when exposed to the open air.
- Do not discharge the system without the appropriate equipment.

G - WARNING: The power take-off must not be used at 1000 rpm unless the implement is designed to run at this speed (see the user's manual).

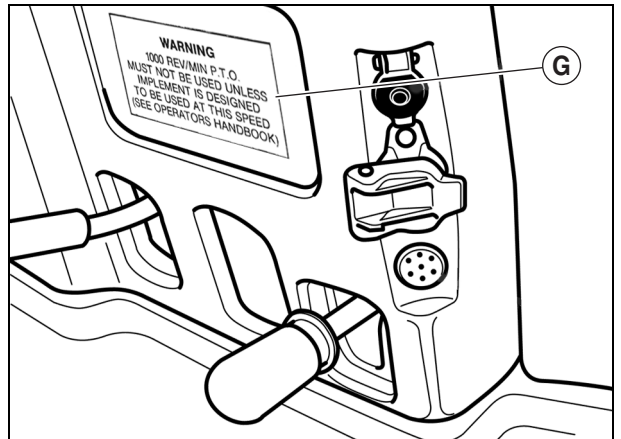
H - WARNING: To prevent accidents. Disconnect the hydraulic hoses (of the grab hook) from the distributors immediately after locking on the implement.



781hsn05



781hsn06



781hsn07



781hsn08



BATTERY STATE WARNING LIGHT (8)


This light comes on when the battery voltage is below 10,5. Low voltage causes some malfunctions. Have the battery and the electrical circuit checked by your approved CLAAS dealer. The Drivetronic controls the correct operation of the transmission. The state of the diagnostic indicator (8) can indicate 3 cases of anomalies:

1. Diagnostic indicator flashes slowly

When the defect appears, the tractor reacts jerkily during operations. In spite of this, work can continue. This defect can make it impossible to change direction.

2. Diagnostic indicator flashes rapidly + alarm

In this situation, do not place the reverser lever (F) in neutral (II), or declutch to change gear with the lever (F) or switch (H) located on the gear lever (A) because you risk completely immobilising the tractor. If you have to stop, use only the clutch pedal (G).

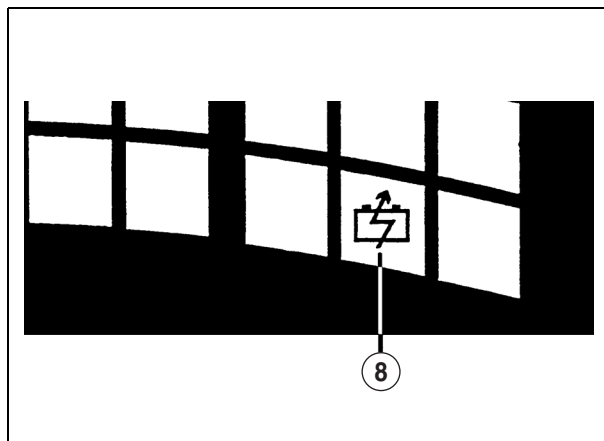


You can only travel in one direction, the one engaged when the defect appeared. If you have to move the tractor, take all necessary precautions, remembering that no reversal of direction will be possible.

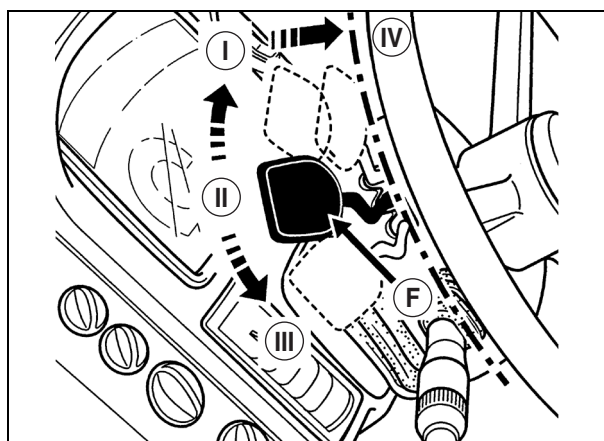
3. Diagnostic indicator on permanently + alarm

In this situation, the tractor is immobilized and the neutral indicator is steady on. This state is the transmission being placed in safety by the Drivetronic.

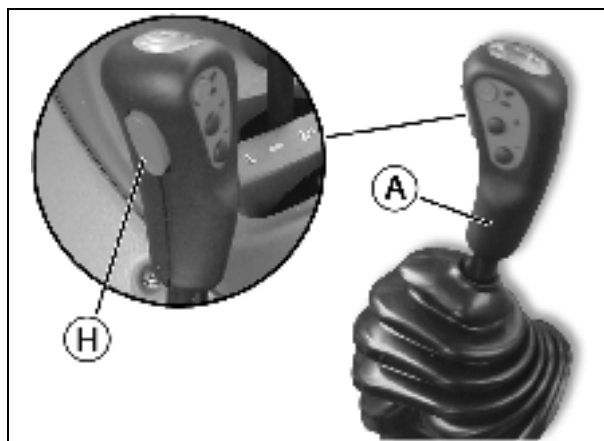
Important: If one of the defects described above occurs during tractor operation, consult your CLAAS approved repair agent.



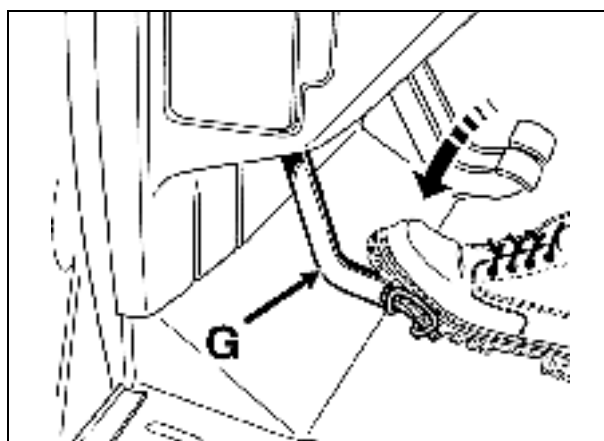
601hsn23



601hsn24



322hsn01

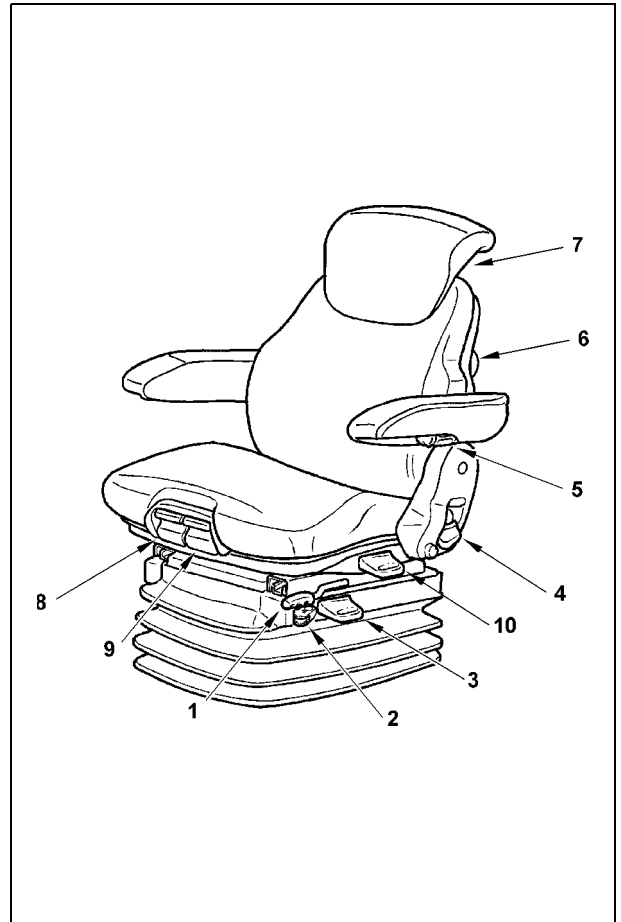


322hsn02



PNEUMATIC SEAT

- 1 - Longitudinal adjustment: Lift lever (1) to release the lock. At the chosen position, release the lever and check the lock is engaged.
- 2 - Horizontal damper: To be used to absorb longitudinal accelerations due to the use of the tractor on tracks and, generally, for all work at more than 7 Km/h.
- 3 - Height adjustment: Pull the handle (3) once to adjust the weight. Wait for calibration to be completed, then pull the handle up or down to adjust the seat height.
- 4 - Backrest angle adjustment.
- 5 - Armrest angle adjustment.
- 6 - Low backrest adjustment: Turn the handle to the left or to the right to obtain low back support in height or depth.
- 7 - Adjustable headrest.
- 8 - Seat depth adjustment.
- 9 - Seat angle adjustment.
- 10 - Seat swivelling adjustment: Pull the handle (10) up to allow seat rotation around its vertical axis.



791hsn05

PASSENGER SEAT

Positioned on the left of the driver it is essential for carrying a passenger.

To unfold the passenger seat:

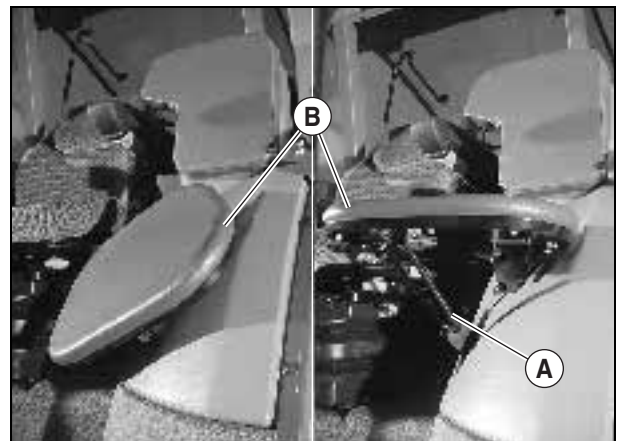
- 1 - Raise seat (B).
- 2 - Position the holding rod (A) on its support.



When carrying a passenger it is obligatory to travel with the doors correctly closed.



Never leave a child (or animal) in your vehicle with the key in the ignition. A child or animal could start the engine or operate electrical or hydraulic equipment.



841hsn11



FUSES AND RELAYS

Important: If a fuse blows, replace it with a new one of the same rating. If it blows again, find the cause and remedy it. Do not use a fuse of a higher rating. Contact your approved CLAAS repairer.

REMOVABLE FUSE

The reserve fuse is next to the battery in the compartment on the right front of the cab.

Ref	Designation	Current
1	Pre-heating	70 A

A - Battery housing range ARES 500.

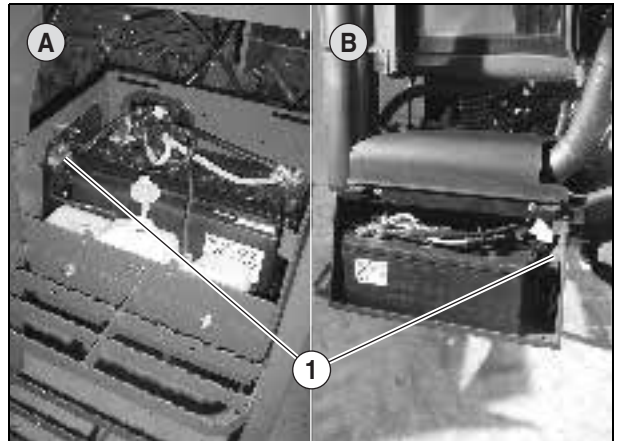
B - Battery housing range ARES 600.

FUSE BOX

The fuse box is located on the left hand side of the dashboard. Open flap (2) of the dashboard to access the fuses and relays.

RELAY ALLOCATION:

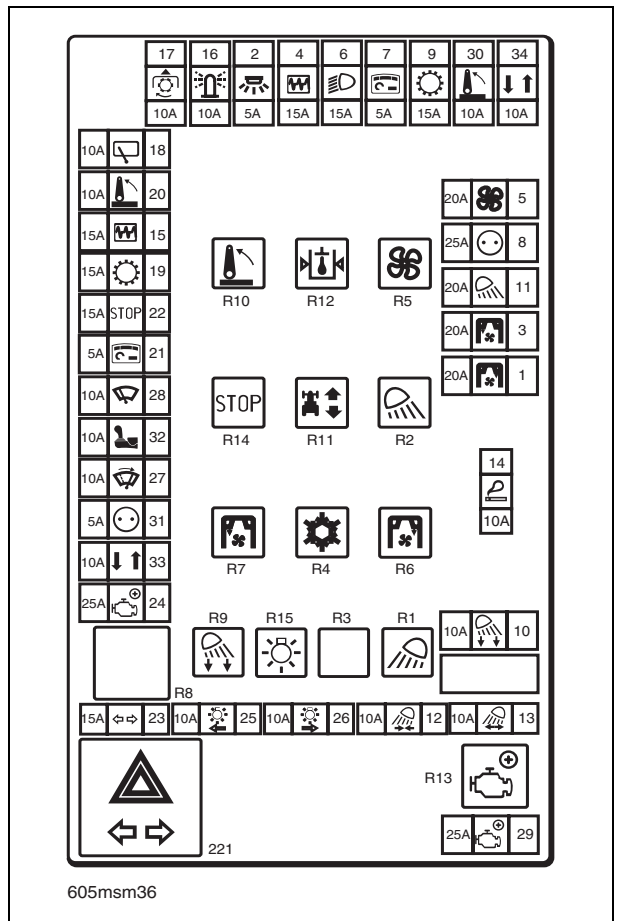
- R1 Front work lights.
- R2 Rear work lights.
- R3 Not in use.
- R4 Air conditioning.
- R5 Heating fan.
- R6 Cooler fan (right side).
- R7 Cooler fan (left side).
- R8 Not in use.
- R9 Rear work lights.
- R10 Electronic lift.
- R11 Reverser under torque.
- R12 Hydraulic pressure.
- R13 Start.
- R14 Stop lights.



601msn06



601msn07



605msm36



E - TRANSMISSION





ECO MODE (INDICATOR (4) ON)

This mode is suitable to fuel savings. Work is performed at a lower engine speed, where specific consumption is low. The graph illustrates gear shifting by the automatic system in economy mode.

Condition for shifting to next higher gear (area A on the graph):

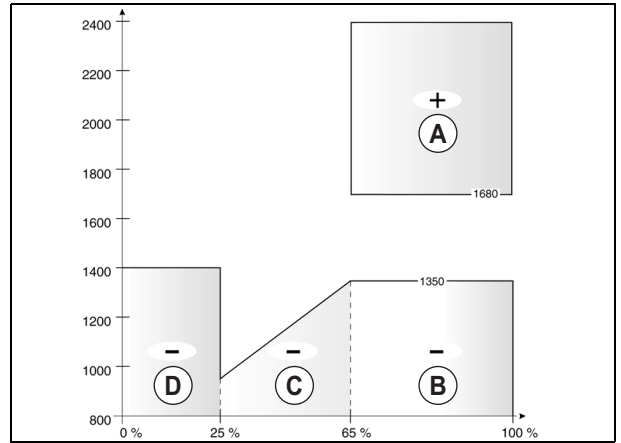
A - Accelerator pedal depressed by more than 85% of its overall travel + engine speed higher than 1680 rpm.

Condition for shifting to lower gear: (areas B, C and D on the graph).

B - Accelerator pedal depressed by more than 85% of its overall travel + engine speed less than 1350 rpm.

C - Accelerator pedal depressed by 25 to 85% of its overall travel + engine speed less than 20% relative to accelerator rating.

D - Accelerator pedal depressed by less than 25% of its overall travel + engine speed less than 1400 rpm (engine braking function).



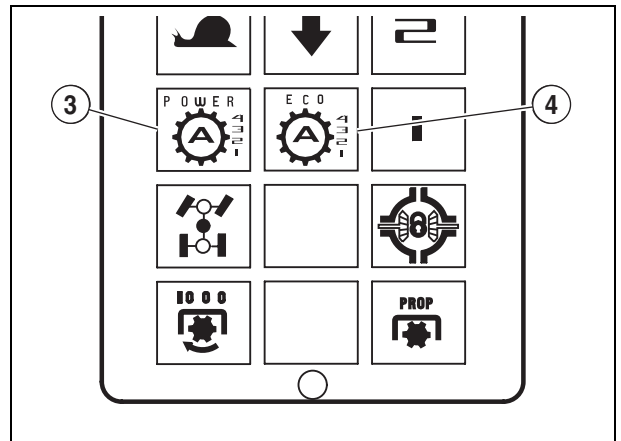
601hsn36

QUADRACTIV ACTION LIMITING

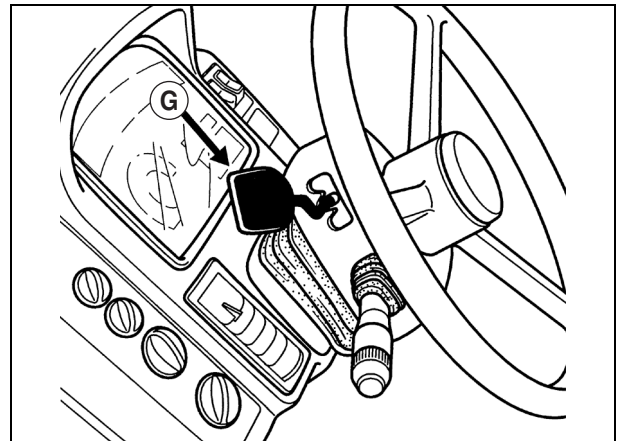
It is possible to limit the action of the QUADRACTIV on 2 or 3 of the 4 quadrupler torque ratios. This function enables you to restrict the forward speed.

- Activate the Quadtractiv function in Eco or Power mode by pressing switch (1).
- Select a motion direction, using the reverser (G).
- Engage a mechanical ratio with the gear lever (E).
- Move the tractor.
- Then select the torque ratio you do not want to exceed, using buttons (2) "+" and "-" on the gearshift lever or those located in the right-hand pillar of the cab.

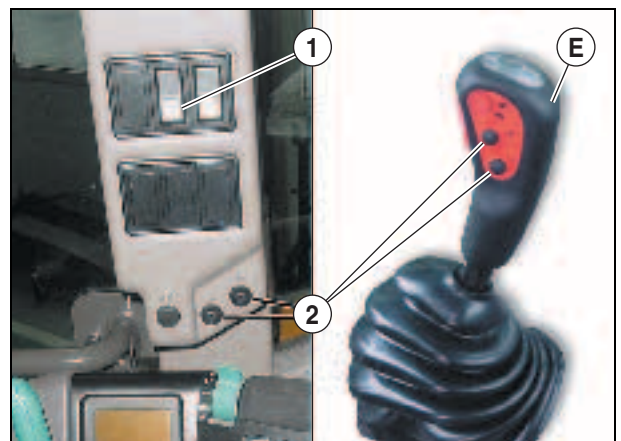
The function takes your request into account automatic gear shifting is performed only within the desired gear range.



602msn03



601hsn53



601msn02

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F - FRONT AXLE





USING THE LINKAGE

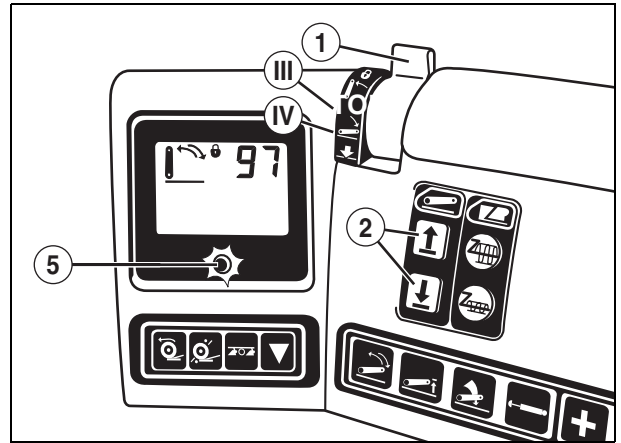
If indicator light (5) is on, proceed as follows:

- Place the mode selector (1) in the working position (IV) ;
- Bring the selector to stop position (III). Wait for 2 seconds.

The light goes out and the linkage is operational.

MALFUNCTIONS

- The warning light (5) flashes slowly: You may continue working. Consult your approved CLAAS agent, an incident is affecting the force or slip controls.
- The warning light (5) flashes rapidly: Stop all activities and call your approved CLAAS repair agent.



382hsn02

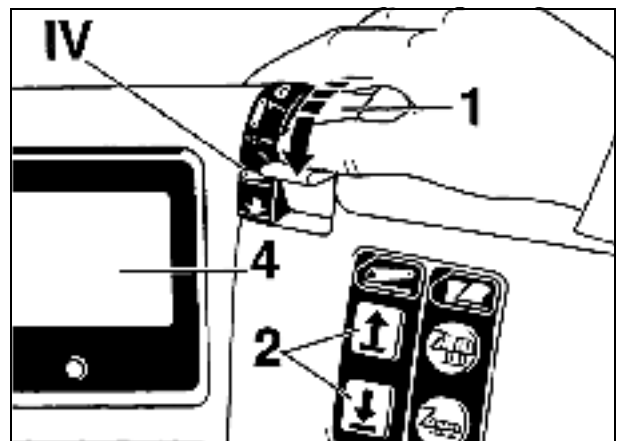
POSITION CONTROL

The position display is adjusted by using the keys (2) after setting the selector (1) to the work position (IV). Press the lower key to lower the linkage arms, the upper key to raise them. The display (4) shows the position of the linkage arms on a scale of 0 to 100.

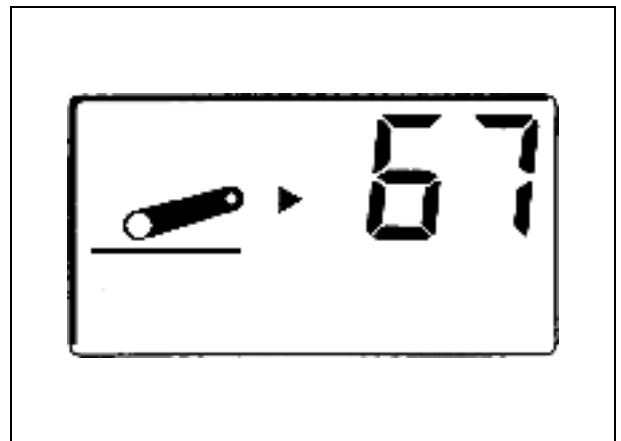
 = bottom position

 = top position

Opposite is an example of adjustment: Position 67.



382hsn03



382hsn04



AUXILIARY SPOOL VALVES

Matching power take-offs with indications:

Indication 1 for power-take-offs (1).

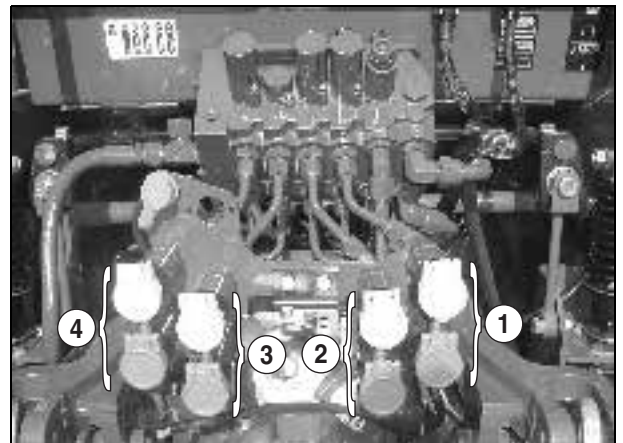
Indication 2 for power-take-offs (2).

Indication 3 for power-take-offs (3).

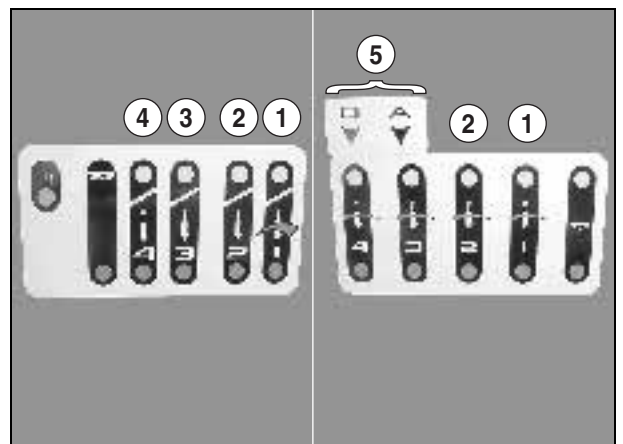
Indication 4 for power-take-offs (4).

Indication 5 for power take-offs (5), (A) and (B).

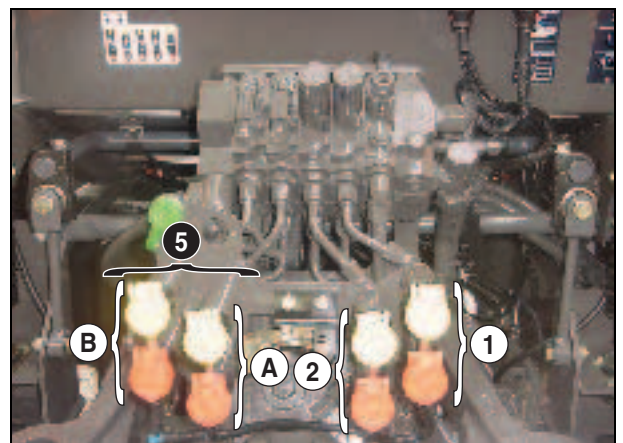
Note: Power take-off (5A) or (3) and (5B) or (4) are mounted in parallel with power take-offs (5A) and (5B), at the front of the tractor. These side connectors function with the electropilot or the cross lever.



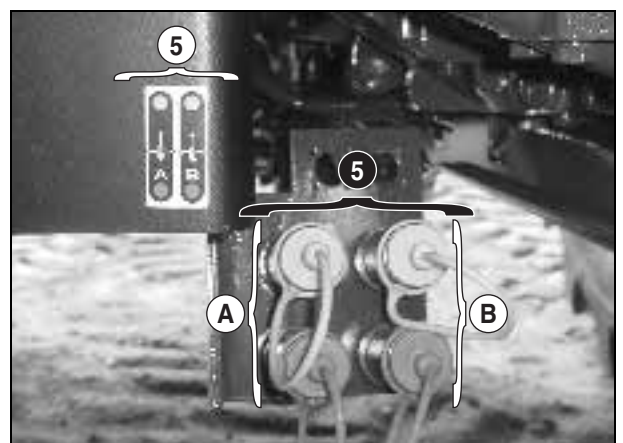
394msn02



394msn03



395msn01



395msn02



H - FRONT POWER TAKEOFF, LINKAGE AND FRONT COUPLING






PARTIAL TRAVELLED DISTANCE FUNCTION

With key (C), put index ▼ in front of symbol .

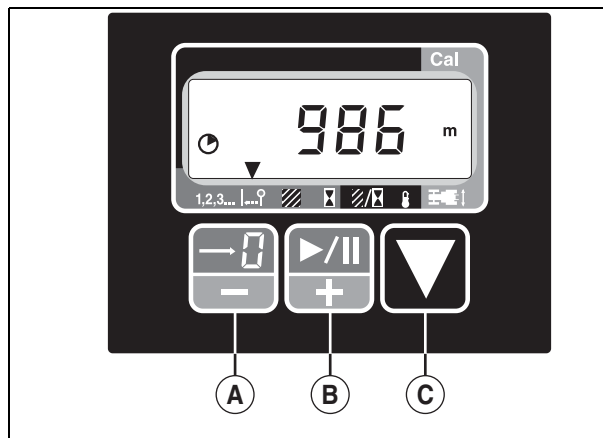
The display unit gives the travelled distance since the last reset.

The cycle reset is accessible at all times using key (A) and resets the partial distance counter.

Counting may be stopped and manually continued at all times using key (B).

 Lit: Counter stopped.

 BLINKING: Counter on.




581hsn06

TOTAL TRAVELLED DISTANCE FUNCTION

From the previous situation, press key (C) for longer than 2 seconds to access the total distance counter.

The cycle reset is accessible with key (A) which simultaneously resets the partial and total distance counter.

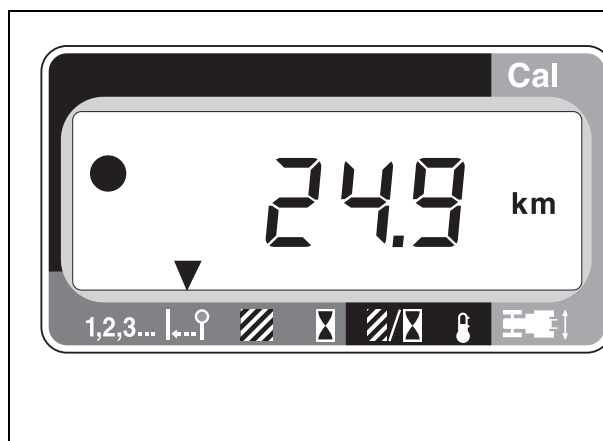
Counting may be stopped and manually continued at all times using key (B).

 Lit: Counter stopped.

 BLINKING: Counter on.

This frequently happens when working heavy land: Comply with a few simple rules and your engine will give full satisfaction

- From 0 to 999 m, in metres
- From 1,0 to 99,9 km, in km and tenths of km
- From 100 to 999 km, in km



581hsn07

PARTIAL WORKED SURFACE FUNCTION

With key (C), put index ▼ in front of symbol .

The display unit indicates the worked surface area since the last reset.

Reset is accessible at any time with key (A) and does not affect the reset of the total surface worked counter.

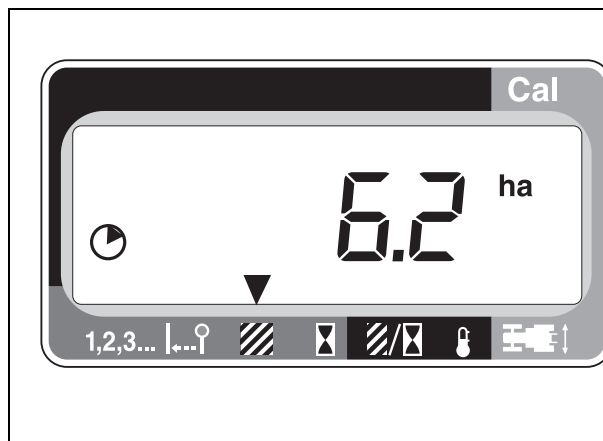
Counting may be stopped and manually continued at all times using key (B).

 Lit: Counter stopped.

 BLINKING: Counter on.

Counting is related to the position of the lifting arm (function valid for lifting TCE 15 and 25).

Display: In hectares and tenths of a hectare.



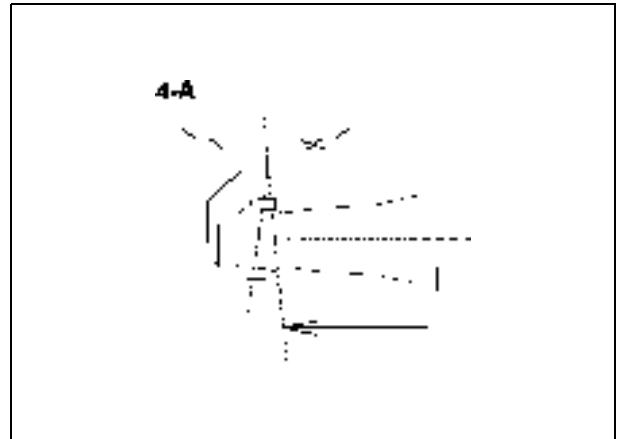
581hsn08



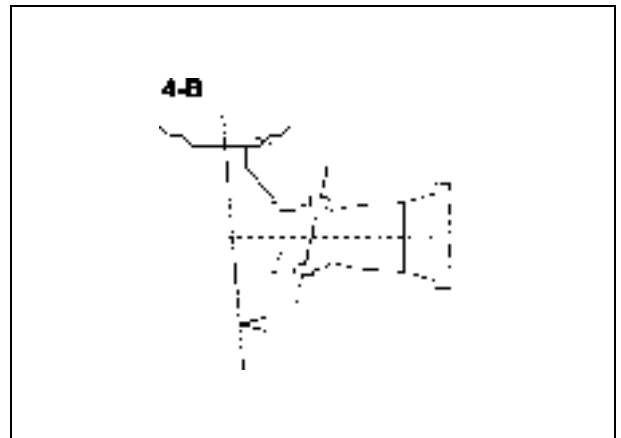
TABLES OF FRONT TRACKS

Type of front axle: A 2019-1					
ARES 546-556-566 Normal front axle					
Rims with fixed wheel disc				Minimum track (in mm)	Maximum track (in mm)
	Tyres	Type	Make	4-A	4-B
	13.6R24	W 12-24	b	1740	2020
	14.9R24	W 12-24	b	1740	2020
	11.2R28	W 10-28	b	1781	1981
	12.4R28	W 10-28	b	1780	1980
▲	13.6R28	W 12-28	b	1779	1979
▲	14.9R28	W 12-28	b	1778	1978
	380/70R24	W 12-24	b	1742	2022
	380/85R24	W 12-24	b	1740	2020
	420/70R24	W 12-24	b	1740	2020
	440/65R24	W 12-24	b	1742	2022
	480/65R24	W 12-24	b	1740	2020
	280/85R28	W 10-28	b	1781	1981
	320/85R28	W 10-28	b	1780	1980
▲	340/85R24	W 12-28	b	1779	1979
▲	380/70R28	W 12-28	b	1779	1979
▲	380/85R28	W 12-28	b	1778	1978
▲	420/70R28	W 12-28	b	1778	1978
▲	440/65R28	W 12-28	b	1779	1979
	480/60R28	W 16L-28		1801	1961
▲	480/65R28	W 12-28	b	1778	1978

▲ Except Ares 566



511hsn10



511hsn11

Type of front axle: A 2022-1					
ARES 616-656 Normal front axle					
Rims with fixed wheel disc				Minimum track (in mm)	Maximum track (in mm)
	Tyres	Type	Make	4-A	4-B
●	13.6R28	W 12-28	a ou b	1779	1979
	14.9R28	W 12-28	a ou b	1778	1978
▲	16.9R28	W 15L-28	a	1725	2025
▲	16.9R28	W 15L-28	b	1805	1949
●	340/85R28	W 12-28	a ou b	1779	1979
●	380/70R28	W 12-28	a ou b	1779	1979
	380/85R28	W 12-28	a ou b	1778	1978
	420/70R28	W 12-28	a ou b	1778	1978
▲	420/85R28	W 15L-28	a	1725	2025
▲	420/85R28	W 15L-28	b	1805	1949
●	440/65R28	W 12-28	a ou b	1779	1979
●	480/60R28	W 16L-28		1801	1961
	480/65R28	W 12-28	a ou b	1778	1978
▲	480/70R28	W 15L-28	a	1725	2025
▲	480/70R28	W 15L-28	b	1805	1949
	520/60R28	W 18L-28		1800	1960
▲	540/65R28	W 15L-28	a	1725	2025
▲	540/65R28	W 15L-28	b	1805	1949

▲ Except Ares 616

● Except Ares 656

a: Titan France.

b: Titan Italy or Titan.

Delivery track in bold.



K - DIMENSIONS, WEIGHTS, CAPACITIES AND BALLAST





Operation n° 7

COOLANT LEVEL: CHECK

A - Coolant tank range ARES 500.

B - Coolant tank range ARES 600.

The coolant level must be between the markers (C) and (D) of the expansion tank:

- Mark (C): Maximum level.
- Mark (D): Minimum level.

Never run the engine if the level is not between (C) and (D). If a top-up is needed, fill to the maximum marker with approved coolant.

When filling, do not exceed the level inside the expansion tank (3) (range ARES 600 only).

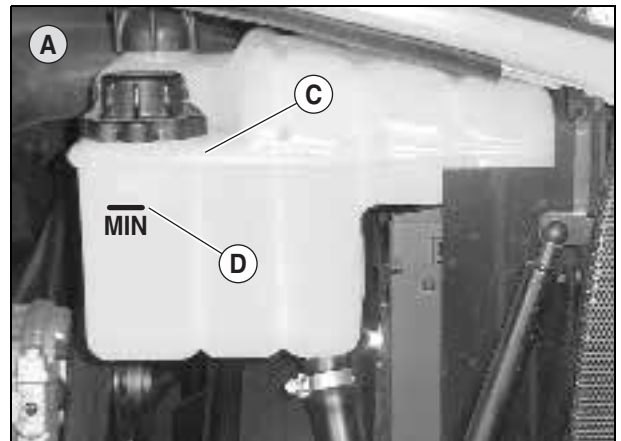


Do not open the cap of the expansion tank before the temperature of the coolant has gone down. Do not work on the cooling system when the engine is hot. Danger of burns !

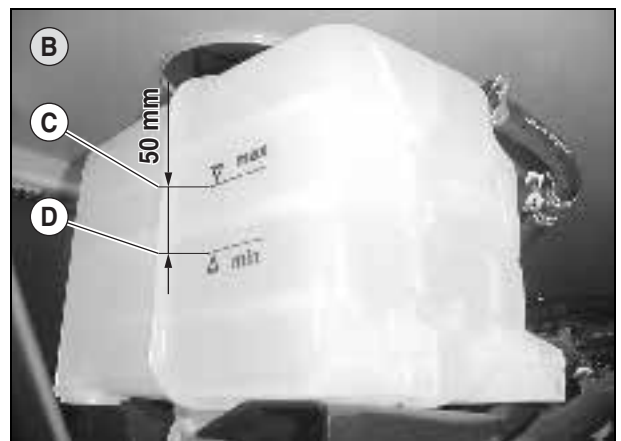
Operation n° 8

SERVICE BRAKE FLUID LEVEL: CHECK

- Check that the level of tank (I) is at maximum.
- Top up if necessary with the recommended brake fluid.



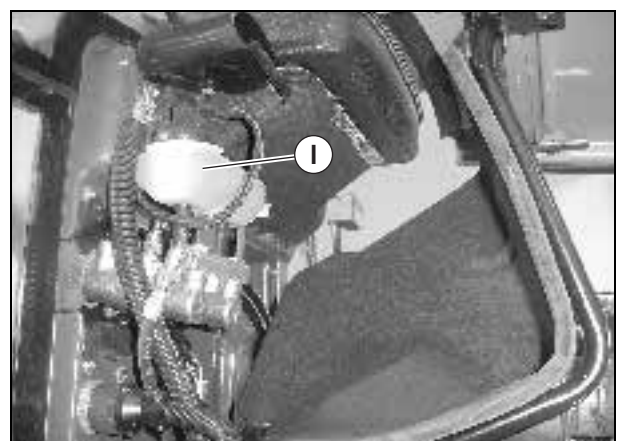
251msn03



251msn04



251hpn04



362msn02



Operation n° 31

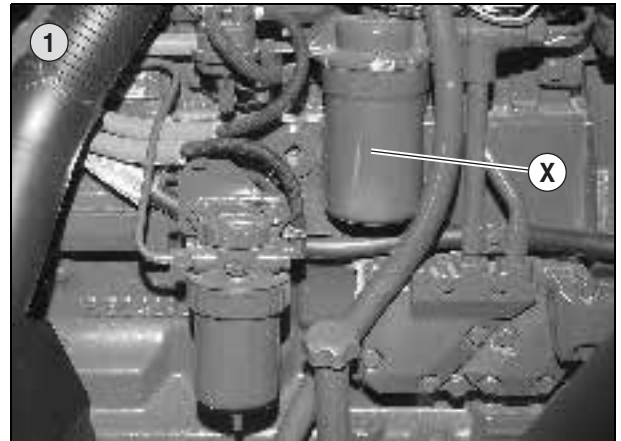
ENGINE OIL FILTER CARTRIDGE: REPLACE

- Remove the right cover.
 - 1 - Filter position range ARES 500.
 - 2 - Filter position range ARES 600.
- Unscrew the filter cartridge (X) using a filter wrench.



The oil is hot! Avoid getting burned!.

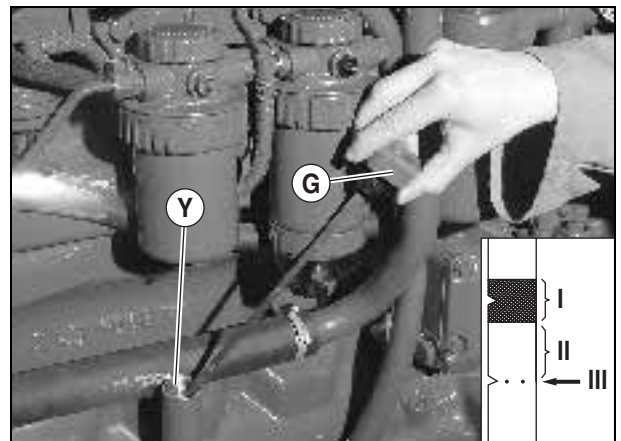
- Lightly oil the rubber seal of the new filter.
- Replace the old filter with the new one and screw down until the seal is in contact with the filter base. Then tighten it another half turn.
- Fill the oil sump through aperture (Y), up to the normal level of use (see operation n° 5).



221msn01



221msn02



111msn01

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