FREQUENCY

SUMMARY TABLE

CHARACTERISTICS

Frequency	*Operation n°*	*Maintenance operations*	*Lubrication*	*Cleaning*	*Check*	*Replace*	*page n°*
As required	1	Cab air filter (main and recirculating)			X		L.6
	2	Windscreen washer fluid level		X			L.6
	3	Engine air filters			X		L.7
	4	Diesel fuel strainer			X		L.8
	5	Front axle wear plate		X			L.8
	6	Maintenance of front loader			X		L.9
Every 10 h	7	Hydraulic /transmission oil level		X			L.9
	8	Engine oil level		X			L.11
	9	Elimination of water in the fuel			X		L.11
	10	Coolant level		X			L.11
	11	Brake fluid level (depending on equipment fit)		X			L.12
	12	Bleeding air from the pneumatic brake system		X			L.12
	13	Pneumatic braking connectors		X			L.13
	14	Front loader				X	L.13
Every 50 h	15	Main cab air filter			X		L.13
	16	Cab "recycled" air filter			X		L.14
	17	Radiator grille			X		L.14
	18	Coolers			X		L.15
	19	Front axle swing bearings *				X	L.15
	20	Rear lift (Automatic pick-up hitch)				X	L.16
Every 100 h	21	Front loader		X			L.17
	22	Front axle differential sump oil level*		X			L.18
	23	Tighten wheel disc and rim nuts		X			L.19
	24	Tyre inflation pressure		X			L.19
	25	Front weight attachment bolts		X			L.20
	26	Front axle				X	L.20
Every 200 h	27	Front axle final drive oil level		X			L.23

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

OPERATIONS

OPERATION N° 1

Cleaning: Cab air filter (main and recirculating)

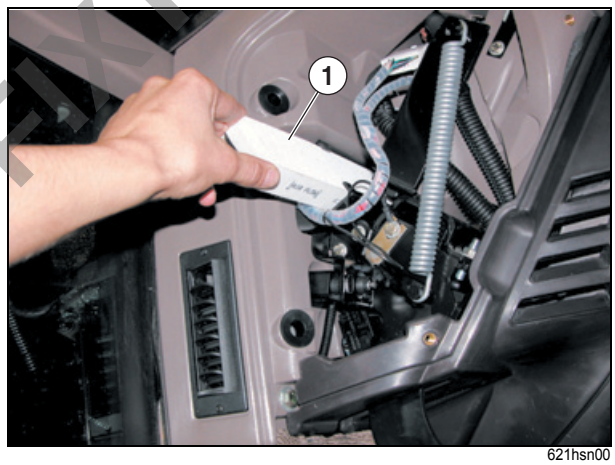
– Remove the air intake manifold (1) and the air filter (2).
– If necessary, clean with compressed air (pressure lower than 5 bar) blowing from the clean side to the blocked side.
– Refit the air filter (2) respecting the orientation of the arrows (towards the cab).
– Refit the air intake manifold (1).



621msn00

– Remove the left cover of the control panel.
– Remove and replace the element (1).

Note: The arrows printed on the filter show the air flow direction. They must point to the front of the tractor.

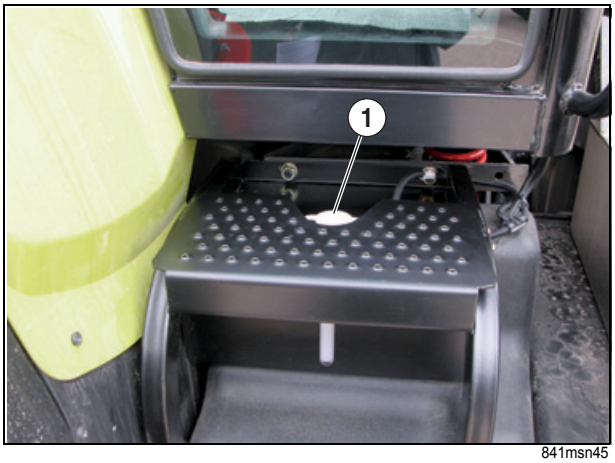


621hsn00

OPERATION N° 2

Check: Windscreen washer fluid level

Top up the screen washer fluid reservoir (1) located in the battery bay.



841msn45

PREVIEW - YOURFIXTHIS.COM

Download full manual at yourfixthis.com

Frequency	Operation n°	Maintenance operations	Lubrication	Cleaning	Check	Replace		page n°
Every 500 h	28	Engine oil **	X					L.23
	29	Engine oil filter cartridge**	X					L.24
	30	Diesel filter cartridge**	X					L.25
	31	Battery terminals			X	X		L.26
	32	Belts	X	X				L.26
	33	Hydraulic/transmission system filter cartridges	X					L.27
	34	Hand brake clearance		X				L.28
	35	Front axle final drive oil	X					L.29
Every 1 000 h	36	Front axle differential casing oil	X					L.29
	37	Main cab air filter	X					L.31
	38	Cab "recycled" air filter	X					L.32
	39	Wheel hubs				X		L.32
	40	Hydraulic strainer	X					L.32
	41	Hydraulic/transmission oil	X					L.34
	42	Rear axle breather	X					L.35
	43	Filter of the regulator cut-out (depending on equipment fit)	X					L.35
	44	Front axle breather	X					L.35
	45	Air conditioning dehumidifier		X				L.36
Every 1 500 h	46	Engine air filter	X					L.37
Every 2 000 h	47	Diesel fuel strainer	X					L.38
	48	Hydraulic system accumulators		X				L.38
	49	Rockers		X				L.38
	50	Thermostat and coolant fluid	X					L.38
Every 2 000 h or every 2 years ***	51	Brake system fluid (depending on equipment fit)	X					L.39
Every 4 500 h	52	Safety cartridge	X					L.39
Every 3 years	53	Cab shock absorbers	X					L.40

** Or every month*

*** If fuel sulphur content exceeds0,2 % replacement frequency changes to 300 heures*

**** Whichever comes first*

PREVIEW - YOUFIXTHIS.COM

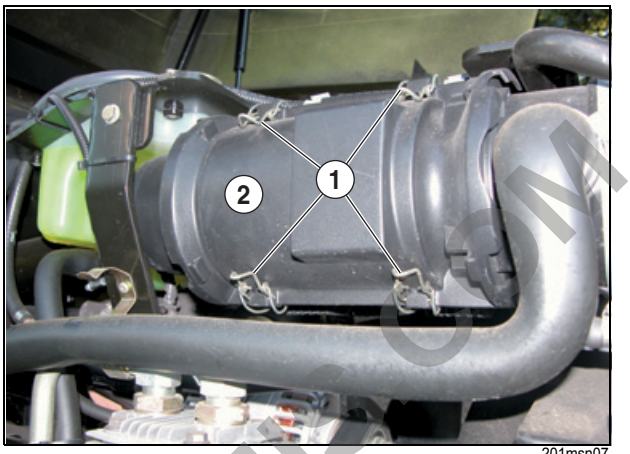
Download full manual at youfixthis.com

OPERATION N° 3

Cleaning: Engine air filter

IMPORTANT: This operation must be carried out with the greatest care and in a dust-free place, the long life of the engine depends on it.

– Place the tractor in a dust-free place before starting work.
– Raise the engine cover.
– Pull on the latches (1) to remove the cover (2).



201msn07

– Remove the filter (3).
– When the main filter (3) needs to be cleaned, tapping it with the palm of the hand removes some of the dirt.



201msn06

– Remove the safety cartridge (4) if it is clogged.
– Clean the cartridge (4) by tapping it with the palm of the hand.

IMPORTANT: Never use a compressed air blower. Generally speaking the main filter (5) must not be damaged or distorted during the cleaning operation. Replace if necessary.

– Check carefully that cover (2) is correctly fitted on the body of the filter, then push back latches (1)
– Check that the air suction ducts are in good condition and that the clips are tightly secured.



201msn08

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

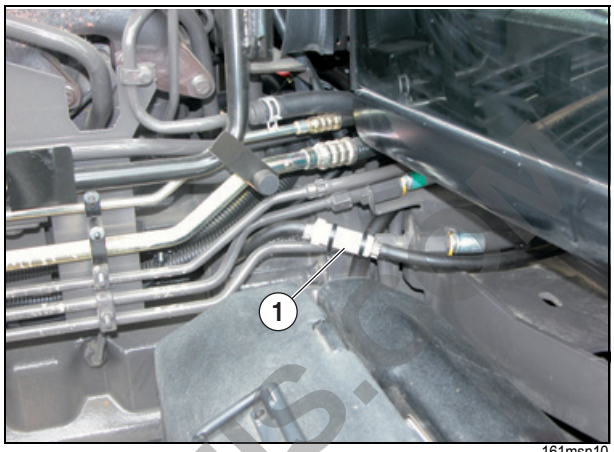
OPERATION N° 4

Cleaning: Diesel fuel strainer

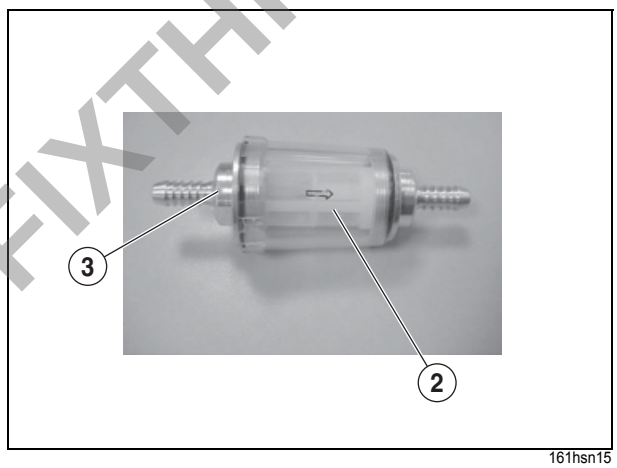
IMPORTANT: The original strainer (1) cannot be dismantled. It must be replaced during the initial scheduled maintenance after the first 100 hours operation by a cleanable filter element (2).

IMPORTANT: Take care not to introduce any impurities into the diesel fuel system during this operation.

– Clean around the strainer located between the cab and the main tank.
– Loosen the clamps that hold the strainer to the fuel lines.
– Collect any diesel still in the feed line.
– Open the strainer by unscrewing parts (2) and (3).
– Clean the 2 parts of the strainer.
– Reassemble.
– Bleed the fuel line (see "Purging air from the injection system" in this chapter).



161msn10



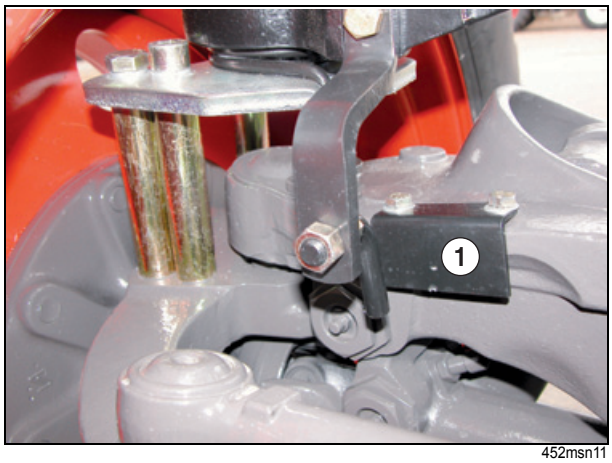
161hsn15

OPERATION N° 5

Check: Front axle wear plate

Suspended front axle 2029SI

– Check wear of the plate (1).
– Replace the wear plate if necessary.



452msn11

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

CONTENTS

A - IDENTIFICATION - CERTIFICATION - SAFETY

IDENTIFICATION A.2
TRACTOR PLATE A.2
ENGINE PLATE A.3
CERTIFICATION A.4
SAFETY A.5
SAFETY A.5
SAFETY STICKERS WITH WARNING PICTOGRAMS A.16

B - DRIVING POSITION

OPERATING AND WORKING ENVIRONMENT B.2
INSTRUMENTS AND CONTROLS (DRIVING POSITION) B.2
INSTRUMENTS AND CONTROLS (PANEL) B.4
STOWAGE AND ACCESSORIES B.5
LIGHTING, INDICATORS AND SAFETY B.6
DESCRIPTION B.6
DRIVING LIGHTS AND HORN B.9
WORKING LIGHTS AND ROTATING BEACON B.11
OVERHEAD LIGHT B.11
REAR VIEW MIRRORS B.12
KEY-OPERATED IGNITION SWITCH B.13
DESCRIPTION B.13
MULTIFUNCTION ARMREST B.14
ADJUSTMENT B.14
SEAT B.15
OPERATION B.15
STEERING WHEEL B.18
ADJUSTMENT B.18
INSTRUMENT PANEL B.19
DESCRIPTION B.19
OPERATION B.22
OPERATION B.25
CALIBRATION B.26
DISPLAY B.27
TRANSMISSION DISPLAY (DIGITAL) B.27
NATURAL VENTILATION AND WINDOWS B.28
OPERATION B.28
HEATING - VENTILATION - MANUAL AIR CONDITIONING B.31
DESCRIPTION B.31
OPERATION B.31
HEATING/VENTILATION/AUTOMATIC CLIMATE CONTROL B.32
DESCRIPTION B.32
OPERATION B.33
CAB SUSPENSION B.35
ADJUSTMENT B.35

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

RECOMMENDATIONS

Thank you for choosing a CLAAS tractor.

In this guide you will find the instructions for use and maintenance that you must know to get the best service from your tractor.

This document is not to be considered as contractual. CLAAS has a policy of continuous technical improvement to all their products, and therefore reserve the right to change without notice and at any time the details contained in this booklet.

If you are still unsure about any points, the technicians of the CLAAS network will be pleased to give you any additional information you may require.

The description of the different models contained in this manual was established from technical characteristics known at the time of writing the document. The manual contains all existing equipment (standard or optional) for these models, and their presence in the tractor depends on the version and options chosen and on the country of sale.

IMPORTANT: Read chapter 'M' specifying the guarantee conditions. Servicing operations during the guarantee period are mandatory; failure to carry then out will nullify the contractual guarantee.

Failure to observe the instructions for use and maintenance as described in this manual definitively excludes any possibility of recourse to the CLAAS guarantee system.

FOR YOUR SAFETY

Before using the tractor for the first time, read the user's manual and observe the general safety instructions!



Warning triangle

In this user's manual, this sign indicates all the paragraphs concerning safety aspects. Pass on these safety instructions to all other users.

The instruction and warning plates affixed to the tractor give important information about possible risks of use. Respect for these instructions is a guarantee of your safety!

APPROPRIATE USE

This tractor has been designed to be used exclusively for normal agricultural work (appropriate use).

Any use other than that defined above will be considered as 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.

Appropriate use also supposes the observance of the operating, maintenance and repair regulations laid down by the manufacturer.

The tractor must be used, maintained and repaired only by persons with a thorough knowledge of the vehicle and aware of the possible risks.

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

Note: The manufacturer declines all responsibility for any damage resulting from any modification made to the tractor without their approval.



PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

DESCRIPTION



MODEL	TYPE
Arion 510	1804
Arion 520	1814
Arion 530	1824
Arion 540	1834
Arion 610	1904
Arion 620	1914
Arion 630	1924
Arion 640	1934

PREVIEW ONLY

Download full manual at Youfixthis.com

B – DRIVING POSITION



PREVIEW ONLY
FIXTHIS.COM

Download full manual at youfixthis.com

OPERATION



The cab air filter is only a dust filter. It gives no protection against treatment product gases or mist.

Isolation of the cab (recirculation) offers no protection against gas or droplets released by treatment products.



Do not open the system; refrigerant fluid is hazardous to the eyes and skin.

ADJUSTING FORCED VENTILATION

	In the "climate control" mode: Pressing either of these buttons deactivates the automatic mode.	
	In the "Manual air conditioning" mode: Pressing either of these buttons repeatedly increases or decreases the volume of forced ventilation. This change can be seen on the grey linear displays.	

ADJUSTMENT OF FORCED AIR TEMPERATURE

	Pressing this button increases cab temperature. The display shows the desired value.	
	Pressing this button decreases cab temperature. The display shows the desired value.	
	Activate the heater mode, the display shows "HI", or a temperature of 32 °C. – The air conditioner compressor is deactivated. – The heater control opens fully. – Ventilation fan is set to maximum.	
	Activate the cooling mode, the display indicates "LO" or a temperature of 16 °C. – The air conditioning compressor is activated. – The heater control is closed.	

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

STOPPING THE ENGINE

OPERATION




Before stopping the engine, lower the implements to the ground and apply the hand brake. Do not leave the engine running in an enclosed area, as accumulated exhaust fumes can cause asphyxia.

– Immobilize the tractor and place the gear lever and clutchless reverser lever in neutral, then apply the hand brake.

– Leave the engine to idle for 1 or 2 minutes then turn the ignition key (1) to the "stop" position.



601hsn95

Note: When the engine has stopped, some of the dashboard and transmission display warning lights will remain lit for several seconds before going out.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

CLUTCH

Recommendations

When the load being towed is heavy or for manoeuvres requiring a rapid reaction time (e.g. : on the road when setting off from a STOP sign), it is preferable to use the clutch pedal instead of the reverser lever to engage the clutch.

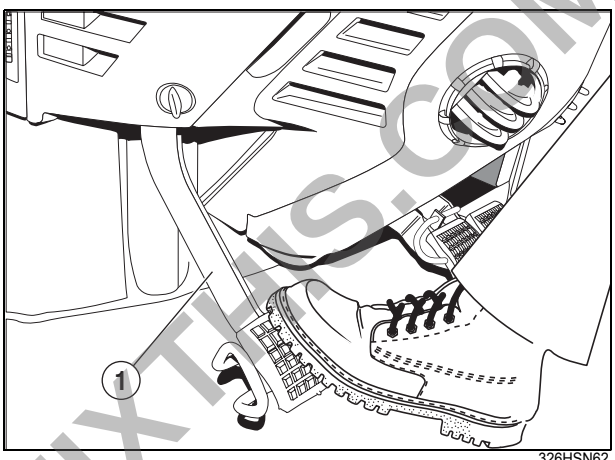
IMPORTANT: On a down-slope, always keep in gear and never declutch.

Clutch pedal

Operation

Press pedal (1) fully down to disengage. The pedal offers greater control when attaching a tool or during a difficult manoeuvre.

IMPORTANT: With the exception of approach manoeuvres, we advise you to fully release the pedal when engaging the clutch (excessive clutch slip may cause serious wear).

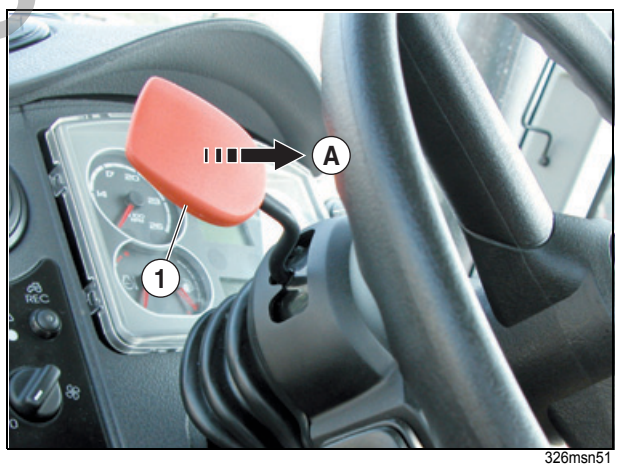


326HSN62

Reverser lever

Operation

To release the clutch, raise the clutchless reverser lever (1) to position (A). The clutchless reverser is disengaged by holding the lever in this position; release the lever to engage it.



326msn51

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

FRONT AXLE ENGAGEMENT

OPERATION

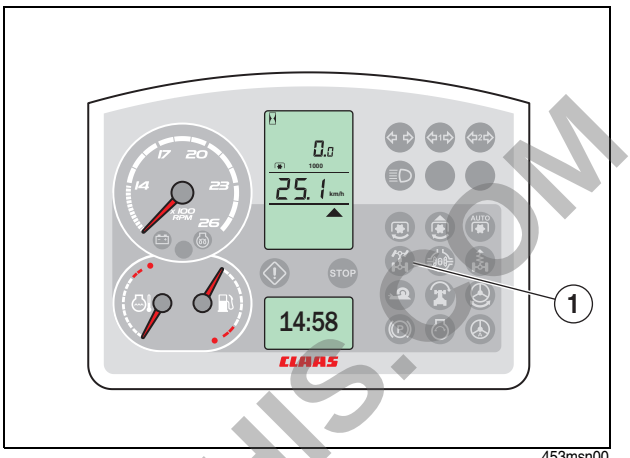
With the engine stopped or the hand brake on, the front axle is automatically engaged (safety, braking on the four wheels).

As it moves off, the tractor resumes the situation memorised when the engine stopped.

For efficiency and safety reasons, the automatic system manages front axle engagement to ensure braking on all 4 wheels; the brake pedals must be coupled to achieve this.

When the brake pedals are pressed, the automatic system engages the front axle.

The gear ECU that runs the front axle operation disengages it and turns off indicator (1) when the brake pedals are released.

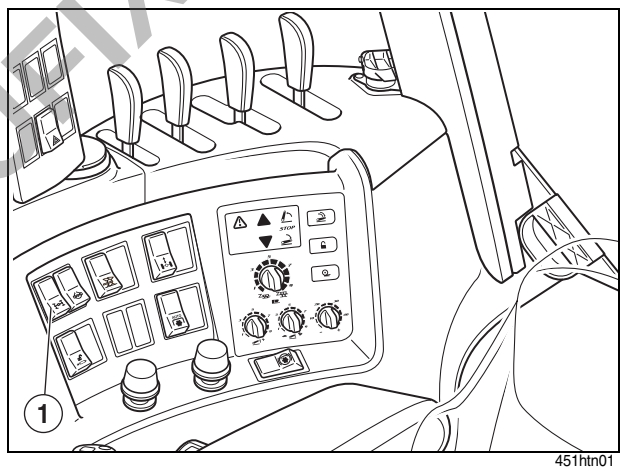


453msn00

AUTOMATIC MODE

OPERATION

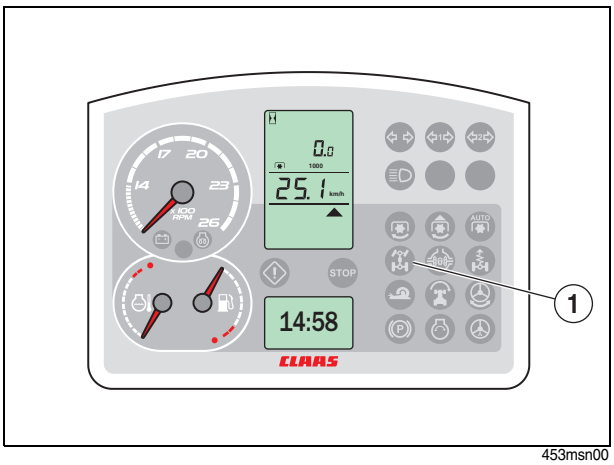
This mode is obtained by a single pressure on switch (1).



451htn01

The front axle engagement indicator (1) turns on in the instrument panel.

To disengage the front axle, press the switch.



453msn00

OPERATION

The front axle is automatically engaged when the speed falls below 14 km/h.

The front axle is automatically disengaged when speed exceeds 14 km/h.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

HITCH

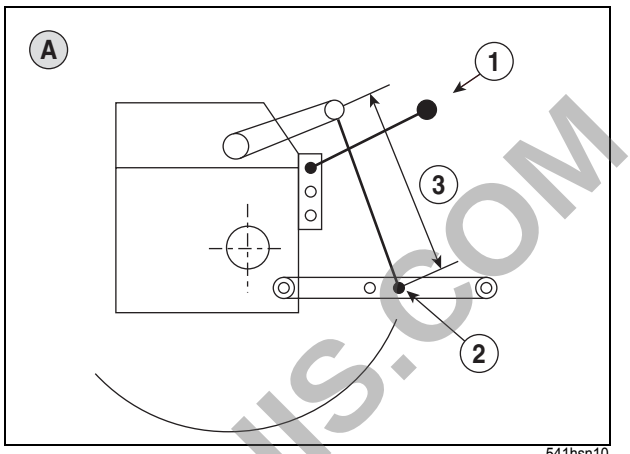
RECOMMENDATIONS

The 3 point hitch enables a wide range of implements to be attached. You must identify the most appropriate hitch geometry for each application. To achieve this the following components can be adjusted:

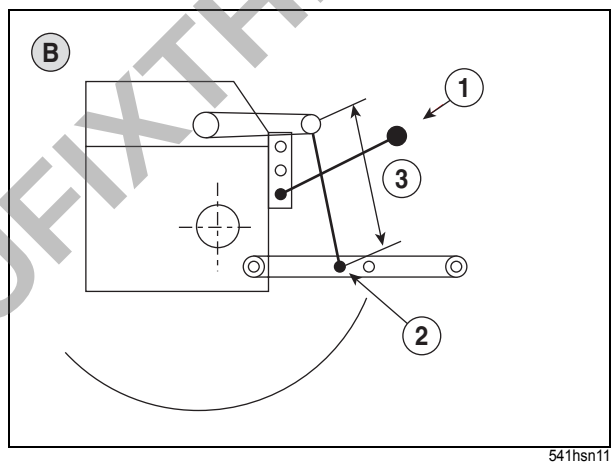
1- Top link (attachment point for the upper rod in relation to the wheel axis and the rod length).

2- Lower links (attachment point for the linkage rods on the lower bars).

3- Adjustable links (link length adjustment). If you need maximum lift capability (heavy implement), you should aim to achieve a configuration that offers maximum mechanical advantage (A). If the load to be lifted is not great, a possible hitch configuration corresponding to the minimum mechanical advantage is shown (B).



541hsn10



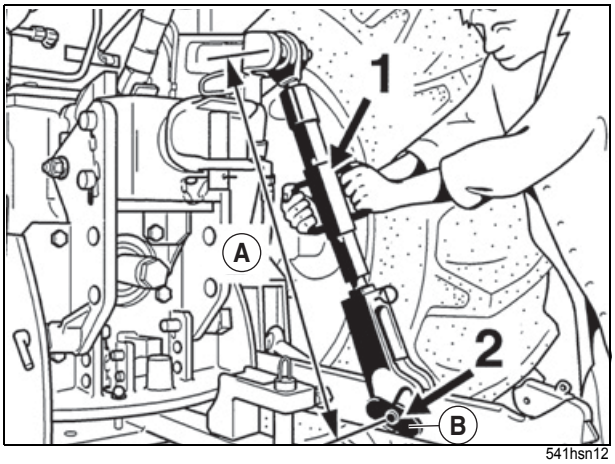
541hsn11

ADJUSTABLE LINKS

ADJUSTMENT

– To increase lift height, shorten the links.
– To obtain greater working depth, lengthen the links.
– To obtain a laterally offset implement position, adjust the LH or RH link.

All adjustments are carried out using the handles (1).



541hsn12

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

1 – On-board computer menu.

2 – Tool width adjustment menu.

3 – Distance travelled.

4 – Area worked.

5 – Time worked.

6 – Area worked per hour.

7 – Tool width adjustment.

8 – Partial travelled distance.

9 – Total travelled distance.

10 – Partial travelled distance counter resetting.

11 – Total travelled distance counter resetting.

A – Validation and saving of new parameters.

B – The procedure allowing the total and partial counter resetting is the same for all counters.

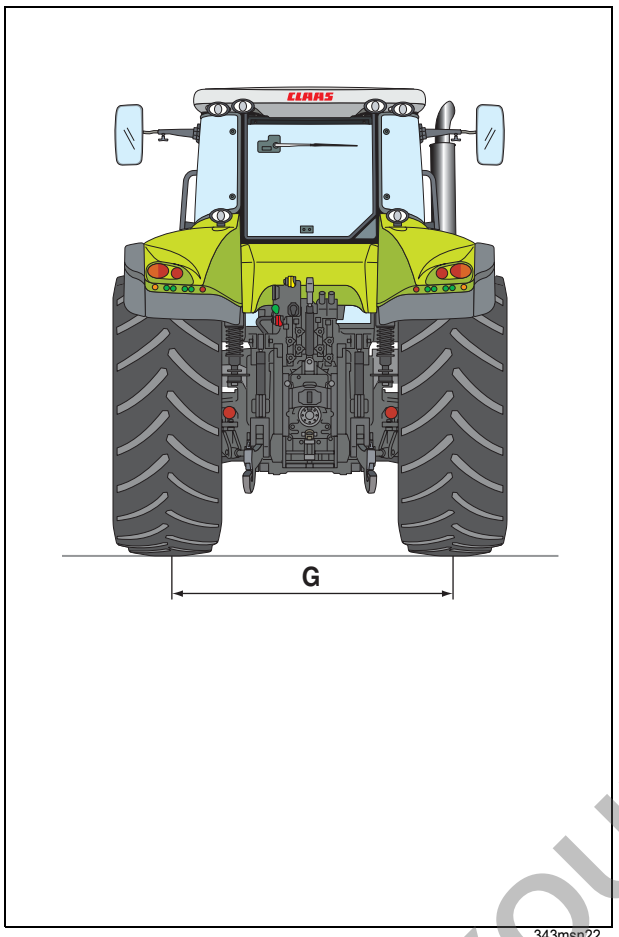
P – Partial counter.

T – Total counter.

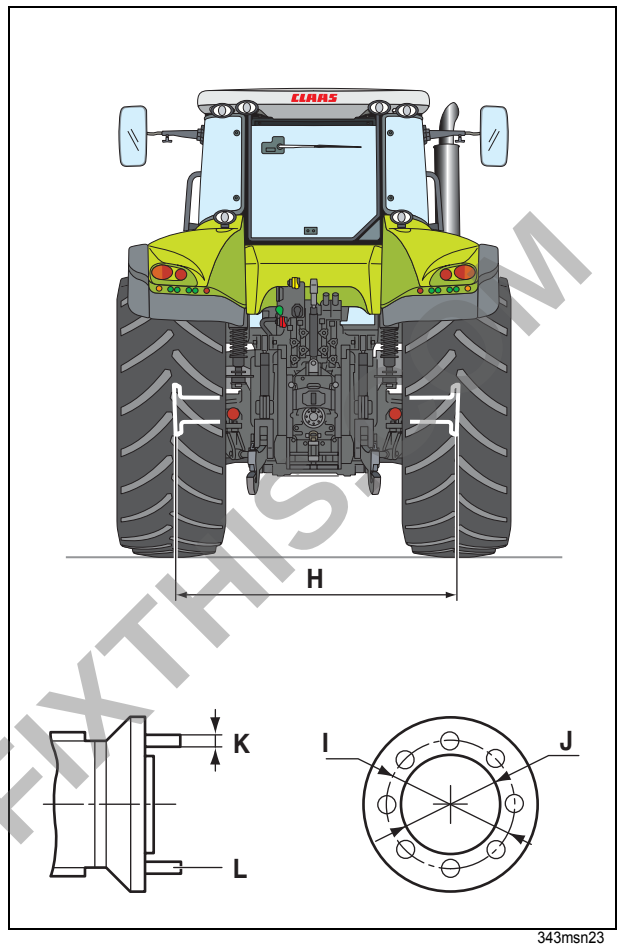
The surfaces counting is only made when the lift is in low position.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com



343msn22

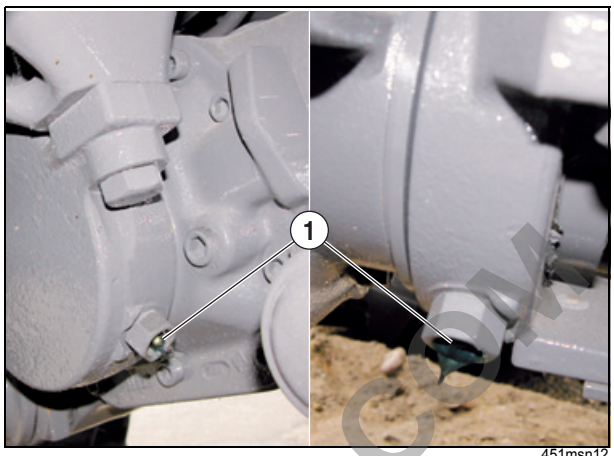


343msn23

PREVIEW - YOUFIXTHIS.COM

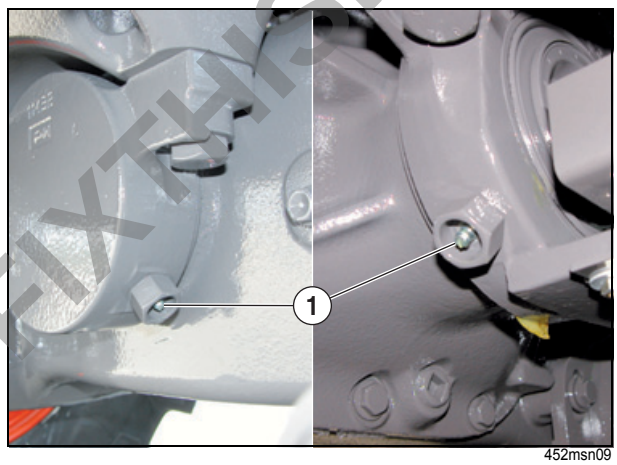
Download full manual at youfixthis.com

(1): Suspended front axle 2025SI.



451msn12

(1): Suspended front axle 2029SI.



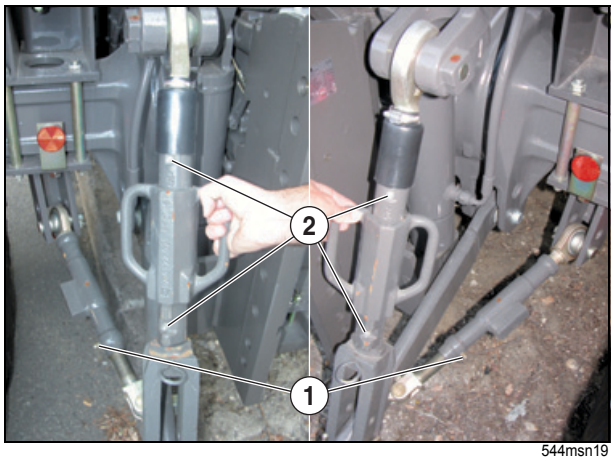
452msn09

OPERATION N□ 20

Lubrication: Rear lift- Automatic pick-up hitch

Rear lift

– Clean the grease nipples and apply grease as follows:
– Stabilisers (1 nipple/stabiliser) (1)
– Lifting rods (2 grease nipples)(2)
– Oil the ball joints.



544msn19

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 17 of 324 pages

The full manual includes:

- All 324 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

Claas ARION 510, ARION 520, ARION 530, ARION 540, ARION 610, ARION 620, ARION 630, ARION 640 Operator Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual