LUBRICATION/MAINTENANCE SCHEDULE

Maintenance at	250, 750, etc.	operating hours	
Inspection at	500, 1,000, etc.	operating hours	(at least 1x annually)
Inspection every	1,000	operating hours	(at least every 2 years)

Operating hours	daily	as required	250	500	750	1,000	1,250	1,500	1,750	2,000
ENGINE										
Checking the engine oil level										
Engine oil change (at least 1x annually)				■		■		■		■
Oil filter change (at least 1x annually)				■		■		■		■
Drain fuel filter			weekly or every 50 hours							
Change fuel filter cartridge(s)				■		■		■		■
Check hose connections for dry air filter						■				■
Check and adjust valve travel						■				■
Change dry air filter cartridge (at least 1x annually)						■				■
Clean dry air filter			When the indicator light on the instrument panel lights up							
Change the safety cartridge in the dry air filter										
Change coolant						■				■
Clean cooling grid, cooler, condenser, oil cooler										
Check the condition and tension of all V-belts			■	■	■	■	■	■	■	■
PTO shaft oil change (after approx. 20 operating hours, then every 100 operating hours or 1x annually)										
TRANSMISSION										
Check oil level of gearbox, top up if necessary (sight glass)				■		■		■		■
Transmission oil change						■				■
Change suction filter						■				■
Change pressure filter						■				■
Check oil level in planetary gear			■		■		■		■	
Change oil in planetary gear			■			■				■
Clean air vent				■		■		■		■
HYDRAULIC SYSTEMS										
Check oil level				■		■		■		■
Change oil						■				■
Clean suction filter						■				■
Change pressure filter				■		■		■		■
Grease powerlift linkage										

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SPECIFICATIONS

ENGINE

General information

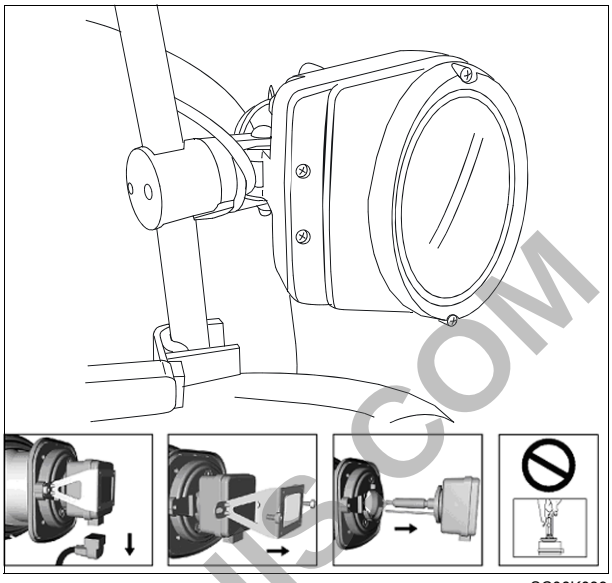
6-cylinder 'common rail' four stroke engine with direct injection and exhaust-gas turbocharger with charge air cooler					
Type	**CVX 140**	**CVX 150**	**CVX 160**	**CVX 175**	**CVX 195**
Name	WD 620.60	WD 620.61	WD 620.62	WD 620.63	WD 620.64
Firing sequence	1-5-3-6-2-4				
Bore diameter	108 mm				
Stroke	120 mm				
Cubic capacity	6,595 cm^3				
Compression ratio	18.5:1				
Rated engine speed	2,100 rpm				
Idle speed	925 ±25 rpm				
Nominal engine power at nominal engine speed					
ISO 14396	104 kW (141 Hp)	111 kW (150 Hp)	118 kW (160 Hp)	129 kW (175 Hp)	144 kW (196 Hp)
Maximum engine power					
ISO 14396	105 kW (143 Hp)	113 kW (154 Hp)	120 kW (163 Hp)	132 kW (179 Hp)	145 kW (197 Hp)
at an engine speed of	1,900 rpm				
Maximum engine power					
Power Plus ISO 14396	120 kW (163 Hp)	128 kW (174 Hp)	135 kW (183 Hp)	147 kW (200 Hp)	159 kW (216 Hp)
at an engine speed of	1,900 rpm				
Maximum torque					
ISO 14396	585 Nm	630 Nm	675 Nm	745 Nm	792 Nm
at an engine speed of	1,400 rpm				
Maximum torque					
Power Plus ISO 14396	665 Nm	705 Nm	750 Nm	820 Nm	847 Nm
at an engine speed of	1,400 rpm				
Valve clearance, cold					
(exhaust)	0.35 mm				
(intake)	0.35 mm				

IMPORTANT: *The engine must be stationary before valve clearance is adjusted.*

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Side-mounted work lights ‘Xenon’ (if equipped)


SC06K039

Lamp replacement:

NOTE: *Always switch off headlight before changing lamps and disconnect from power supply.*
First allow the xenon lamp to cool.
The glass on the xenon lamp is filled with various gases and metal vapours and is under pressure (risk of glass splinters).
When changing lamps, always wear protective goggles and safety gloves.
Dispose of old xenon lights as special-category waste.
Never touch the glass bulb of a xenon light: instead, always grip by its base. Carefully remove any fingerprints on the gas bulb using a clean cloth and alcohol.
Connect the Xenon lamp firmly to its connector or to the impulse unit. Incomplete connection of a Xenon lamp can cause damage or cause electric shocks.
The primer unit shuts down within 1 second of the Xenon lamp being disconnected.

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START-UP PROCESS

WARNING: *The tractor may only be started when the driver is seated in the driver's seat.*

The tractor is equipped with an auxiliary starting aid. Use of the auxiliary starting aid depends on the temperature and is shown by the indicator lamp (6) lighting up.

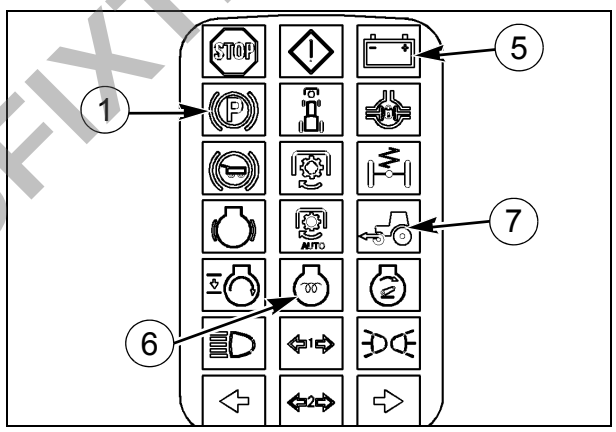
STEP 1



Turn the starter switch to the ON position.

Wait approx. 2 seconds until the electronic safety check has been completed.

Charge check (5) and indicator lamps for all-wheel drive (7) and applied parking brake (1) light up. The fuel supply and the tank pressure are displayed on the screen as soon as the starter switch is in the ON position.



SS06M165

STEP 2

Wait until the indicator lamp for the auxiliary starting aid (6) has gone out.

STEP 3



Continue to turn the starter switch until it is in the START position.
Release the start key as soon as the engine starts.

All the indicator lamps must go out except for the indicator lamps indicating that the handbrake is applied and that all-wheel drive is selected.

STEP 4

Check that all indicator lamps indicate normal operating mode and that the coolant temperature display is in its middle range once the engine has warmed up.

IMPORTANT: *If any of these indicator lamps or display instruments indicates the presence of a fault, SWITCH OFF THE ENGINE IMMEDIATELY AND DETERMINE THE CAUSE.*

IMPORTANT: *If the engine starts up then stalls you must wait for the engine to come to a complete stop before turning the ignition key to the start position again.*

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INSTRUMENTATION CLUSTER

The instrument block on the right side of the cab frame automatically monitors various tractor operating modes and functions. The statuses of these systems are displayed by means of analogue displays, LED indicator lights and LCD text displays.

The instrument block displays tractor performance data and issues acoustic signals which are vitally essential for safe operation of the tractor and attached implements.

Whenever the ignition key is moved to ON, the instrument block in the tractor carries out a self-diagnosis of all monitored systems. All indicator lights and displays switch on for three seconds. Before starting on the tractor, ensure that all systems are operating correctly. If they are not, consult your nearest CASE IH sales dealer.

1. Analogue displays for

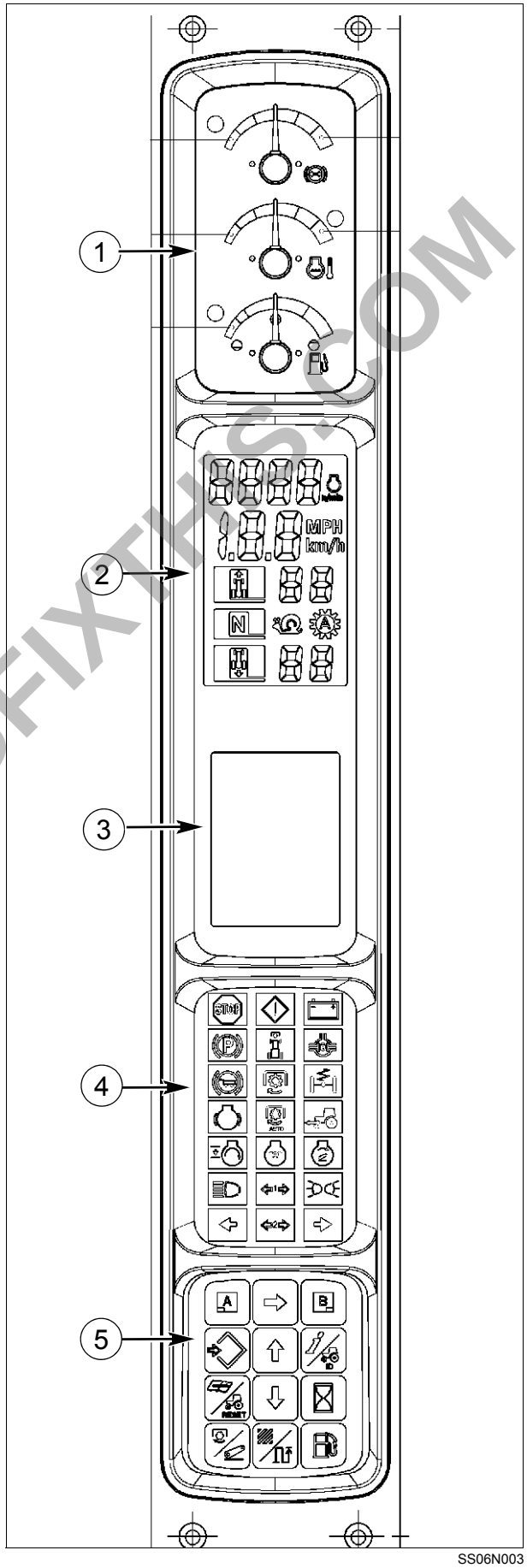
   Pneumatic trailer brakes (if fitted), engine coolant temperature displays fuel gauge.

2. Digital displays for basic functions

3. Digital information and maintenance indicator

4. Warning lamps and monitoring symbols

5. Keypad

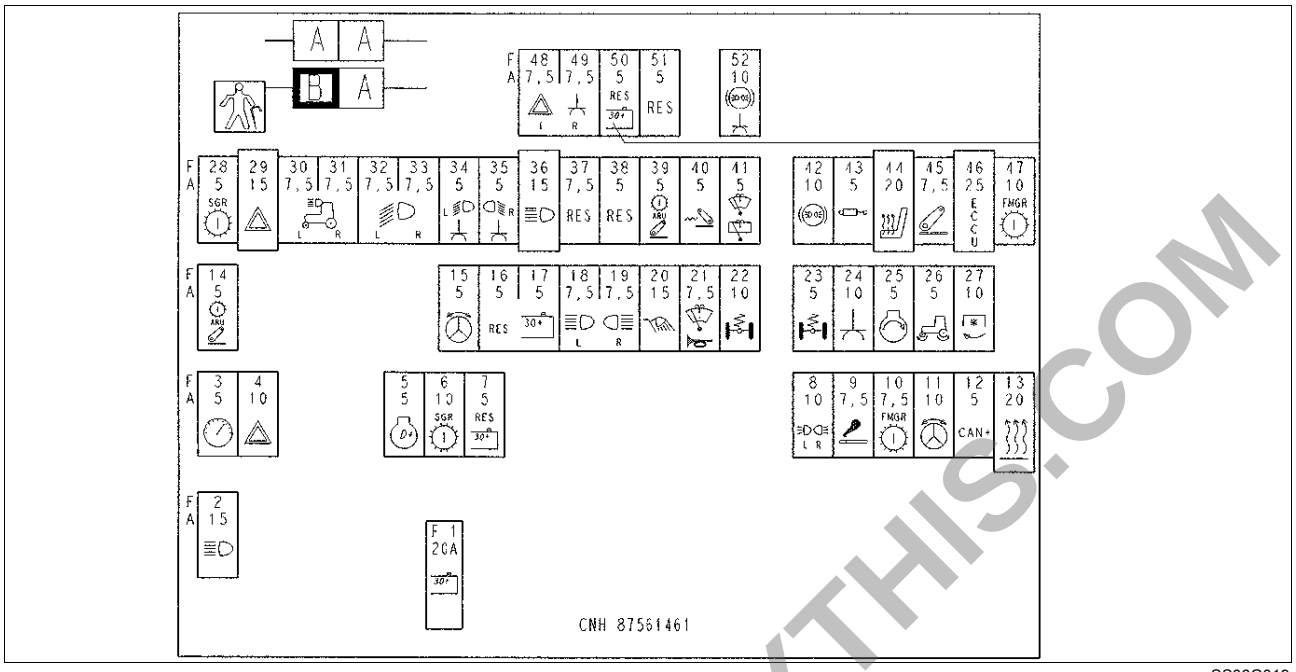


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Fuses - central electrics



SS06G019

F1 Supply, start inhibit ..... 20 amps
F2 Relay 56a ..... 15 amps
F3 ICU ..... 5 amps
F4 free ..... 10 amps
F5 Supply, D+ ..... 5 amps
F6 SGR, Potential 30 ..... 10 amps
F7 Supply, ECCU2,
Potential 30 ECCU2 ..... 5 amps
F8 free ..... 10 amps
F9 Cigarette lighter,
Supply, diagnosis socket ..... 7.5 amps
F10 FMGR, Potential 30 ..... 7.5 amps
F11 free ..... 10 amps
F12 free ..... 5 amps
F13 Heating ..... 20 amps
F14 Reverse driving beeper ..... 5 amps
F15 free ..... 5 amps
F16 Supply, clip 30 reserve, X6/5 ..... 5 amps
F17 Supply, clip 30 reserve, X6/5 ..... 5 amps
F18 58 L parking light, left rear, ADIC
Keypad lighting ..... 7.5 amps
F19 58 R parking light, right rear ..... 7.5 amps
F20 Work lamps, fender ..... 15 amps
F21 Wiper, front, horn ..... 7.5 amps
F22 suspended front axle
Potential 30 ..... 10 amps
F23 suspended front axle
Potential 15 ..... 5 amps
F24 Supply, high-performance socket
Potential 15 ..... 10 amps
F25 Supply, engine print ..... 5 amps
F26 Supply, radar ..... 5 amps
F27 Supply, PTO sensor ..... 10 amps
F28 SGR, potential 15 ..... 5 amps
F29 Supply, indicator lights, Potential 15 .... 15 amps
F30 Replacement headlight, right ..... 7.5 amps
F31 Replacement headlight, left ..... 7.5 amps
F32 Headlight
Engine hood, right 56b ..... 7.5 amps
F33 Headlights
Engine hood links 56b ..... 7.5 amps
F34 Socket, potential 58L ..... 5 amps
F35 Socket, potential 58R ..... 5 amps
F36 Light supply potential 15,
Headlight flasher ..... 15 amps
F37 Supply potential 15 reserve, X6/5 ... 7.5 amps
F38 Supply potential 15 reserve, X6/5 ..... 5 amps
F39 Supply, ARU/ 15/1 ..... 5 amps
F40 EFH supply
Potential 15 reserve ..... 5 amps
F41 Supply potential 15 roof ..... 5 amps
F42 Brake light ..... 10 amps
F43 EHS supply, potential 15 ..... 5 amps
F44 Seat supply, Italy version brake ..... 20 amps
F45 Supply potential 15 EHR ..... 7.5 amps
F46 Supply potential 15 ECCU ..... 25 amps
F47 Supply potential 15 FMGR ..... 10 amps
F48 Socket, indicator light, right ..... 7.5 amps
F49 Socket, indicator light, left ..... 7.5 amps
F50 Supply potential 30 reserve, X6/5 ..... 5 amps
F51 Supply potential 15 reserve, X6/5 ..... 5 amps
F52 Socket, brake light ..... 10 amps

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IMPORTANT: *DO NOT actuate the starter motor continuously for more than 10 seconds. Wait for 30 seconds between each attempted start to allow the starter motor to cool down.*

IMPORTANT: *It is not necessary to 'WARM UP' the engine while the tractor is stationary.*

STEP 5

Pre-select the direction of travel using the shuttle lever and select the driving strategy (automatic or manual mode).
Indicator lamp for the all-wheel drive goes out.
Release handbrake. Actuate accelerator pedal or cruise control. The tractor starts moving.

IMPORTANT: *If the direction of travel is pre-selected when the transmission oil has not yet reached its operating temperature,*  *appears in the display panel.*
During this time, only restricted driving operation is possible  *within a range of 0-8 km/h.*
Any change in the direction of travel during this time is only possible by actuating the clutch pedal.

The status of a monitored system is shown by means of the warning lamps/indicator lamps and the graphic symbols on the ICU screen indicating warnings and required maintenance.

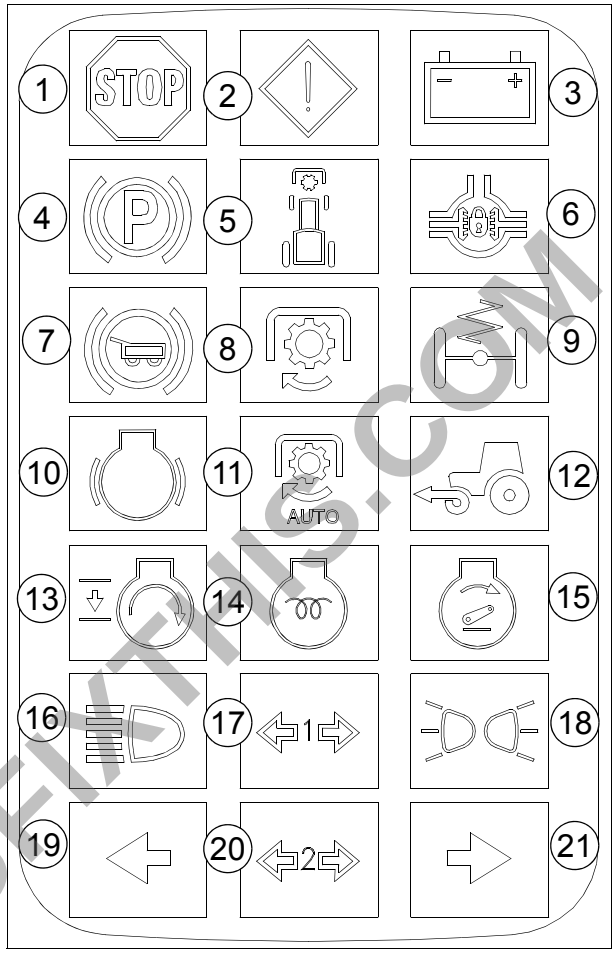
If the indicator lamps are illuminated when the engine is running, maintenance or repair is required or the operating status has not yet been reached (e.g. air pressure system).

The functions of the indicator lamps are described in the Instruments/operating elements (page 48) section of this manual.

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Indicator and warning lights



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1. Red STOP symbol - as soon as this lamp lights up, stop the tractor, switch off the engine immediately and track down the cause. A warning symbol appears on the information display to confirm the location of the error.
2. Orange warning light activated - When this display lights up, a warning symbol is shown at the same time on the information display.
3. Alternator - a continuous light indicates that the alternator is not charging.
4. Parking brake - see page 60.
5. front PTO shaft.
6. Differential lock - Display lights up when the differential lock is activated.
7. Trailer brake pressure - When this lamp lights up, the trailer brake fluid pressure in the trailer brake circuit is too low. Switch off the tractor and determine the cause.
8. Rear PTO shaft.
9. Sprung front axle - this lamp indicates that the sprung front axle is activated.
10. Engine engine exhaust brake - Display lights up when the engine engine exhaust brake is activated.
11. Auto PTO function.
12. All-wheel drive - Display lights up when the drive for the front wheels is engaged.
13. Engine suppression.
14. Cold-start unit - display lights up whenever auxiliary start system is enabled (temperature-dependent).

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SAFETY AND SAFETY PANELS

SAFETY MESSAGES USED IN THIS MANUAL

This warning symbol points out important messagrs 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 this manual the symbol is accompanied by the following keywords:

DANGER

Indicates an immediate hazardous situation, that, if not avoided, will result in death or serious injury.

WARNING

Indicates a potential hazardous situation that, if not avoided, could result in serious injury.

CAUTION

Indicates a potentila hazardous situation that, if not avoided, may result in minor injury or machine damage. This can also be used to alert against unsafe practices.

Failure to observe the instructions preceded by the aforementioned key words may result in severe or fatal injury to the persons involved.

Furthermore, this manual also contains instructions preceded by the terms **NOTE** and **IMPORTANT**, with the following relevance in relation to machine protection:

IMPORTANT : *This is used to higlight important information for machine usage or specific procedures to prevent minor machine damages.*

NOTE: *This is used to identify and present supplementariy informations.*

PROPER USAGE

This tractor is intended primarily for use in agricultural, rural community or forestry operations (proper usage). The primary function of the tractor is to deliver tractive power, and it can be used for pulling, pushing, carrying or for actuating defined equipment, machines and trailers.

Any usage extending beyond this scope is defined as improper usage. The manufacturer shall not be liable for damage arising as a result. The operator shall bear sole liability for such risk.

Proper usage also involves strict compliance with the operating, maintenance and repair instructions specified by the manufacturer.

This CASE IH tractor must only be used, maintained and repaired by people who are familiar with the special characteristics of this machine and who have been advised of the relevant safety regulations (accident prevention).

You must comply with the applicable accident prevention regulations as well as other generally recognised guidelines governing safety, occupational health and road traffic laws.

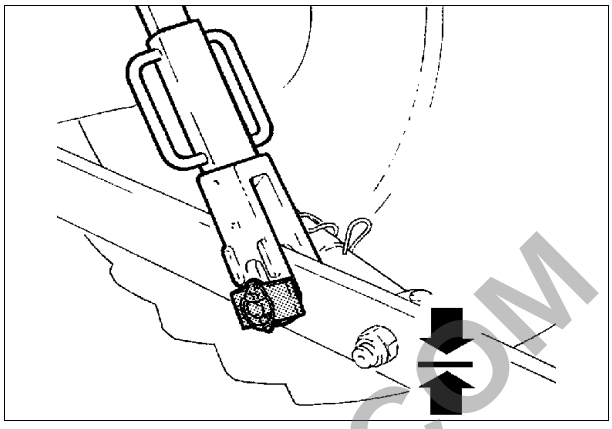
The manufacturer excludes all liability for damage arising as a result of modifications made to the machine independently by the operator.

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STEP 1

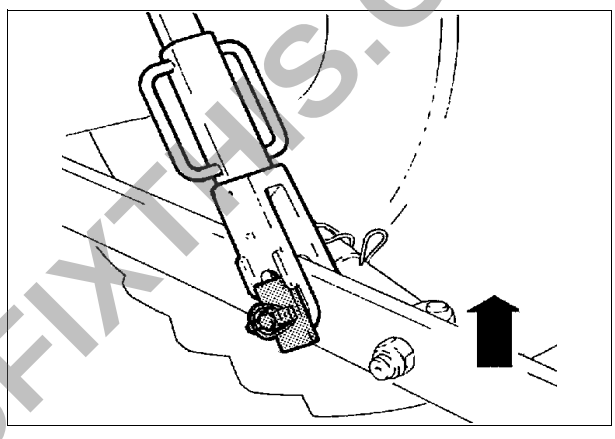
By fitting the lugs at right angles to both lift rods the lower links have zero-clearance (fixed position).



SS97G263

If the lugs are positioned in a longitudinal direction the lower link can be moved through the longitudinal hole (clearance).

This position allows a certain level of vertical freedom of movement for the lower links. There is no warping of linkages when working with land-based implements (e.g. sowing machines).



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