

Zetor

PROXIMA CL

OPERATOR'S MANUAL

07/2017



80

90



Tractor is Zetor. Since 1946.

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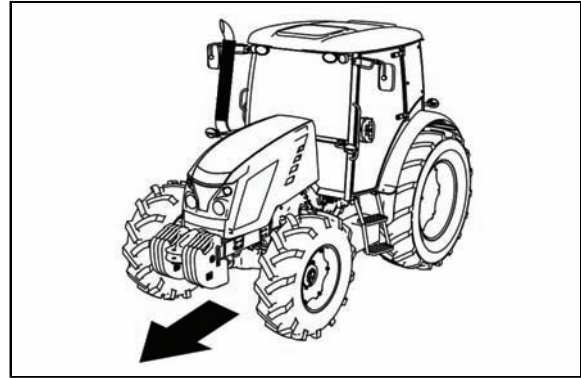


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LOCATION OF SERIAL NUMBERS

The 'right', 'left', 'front' and 'back' indications refer to the driving direction of the tractor.



G3

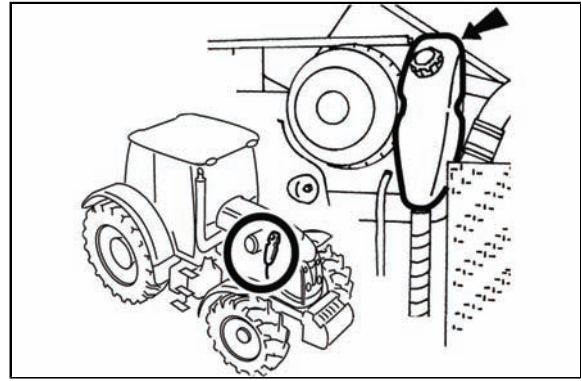
PREVENTIVE DAILY SERVICE

Cooling system

Check the connections of the engine cooling system for leaks and the coolant quantity in the expansion tank. Replenish the missing quantity up to the upper mark indicated MAX. The minimum acceptable cooling liquid level is indicated by the MIN mark.



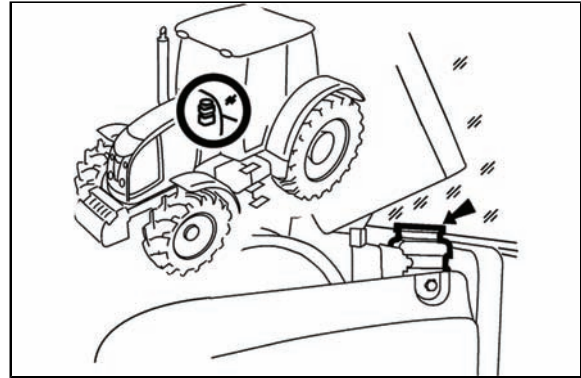
Only release the overpressure plug when the coolant has cooled down! There is a danger of scalding!



G751a

Liquid brakes

Check the liquid brakes for leaks as well as the liquid control of the clutch and the braking liquid level in the expansion tank. Maintain the brake liquid level in the range of 3/4 of the tank content (max. level) and 1/2 of the tank content (minimum level).



G735a

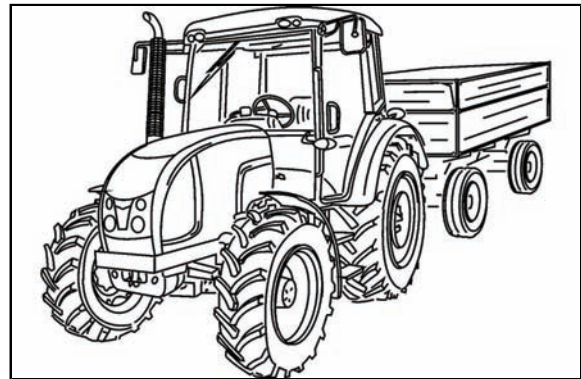
Trailer brakes

Trailer air brakes

Check tightness of the air system of the brakes and effectiveness of brakes of the tractor with a trailer.

Trailer hydraulic brakes

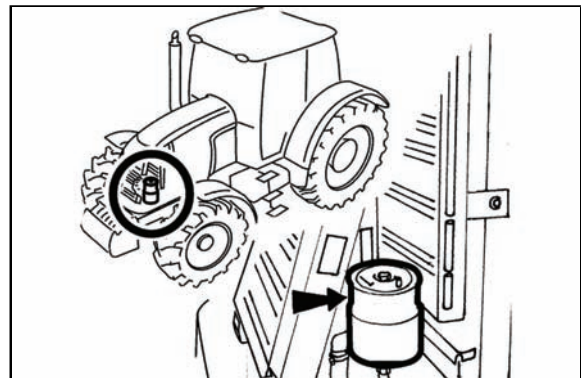
Check tightness of hydraulic brakes of the trailer and effectiveness of brakes of the tractor with a trailer.



G9

Hydrostatic steering

- Check the oil level in the hydrostatic steering tank.
- Check the tightening of screws and nuts of the steering rods and levers.
- Check the condition of all the hoses of the hydraulic steering circuit for damage and for oil leaks.



G751b

ACQUAINTANCE WITH TRACTOR

Driver's seat with mechanical suspension

Control according to points 1, 2, 3, 4 and 5
Point 2, lever is placed on the right

Driver's seat with pneumatic suspension

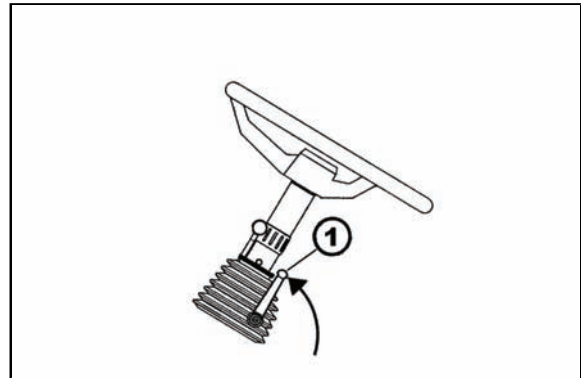
Control according to points 2, 3, 4, 5 and 6
Point 2, lever is placed on the left

Tilt steering wheel

Adjusting the angle of the wheel

The angle can be adjusted by tilting the wheel after it is unlocked by moving the lever (1) in the direction shown by the arrow.

After adjusting, lock the wheel by pressing the lever (1) in the opposite direction than shown by the arrow.



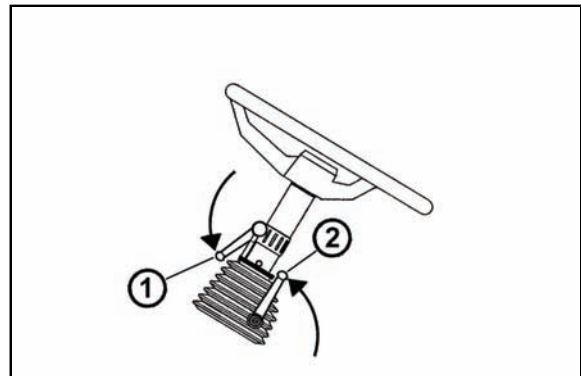
W1

Tilting and protrusion of steering wheel

Tilting column of steering wheel enables variable setting of position of the steering wheel both in terms of angle and height.

Height setting of steering wheel

The setting is done by protrusion or retracting the steering wheel after unlocking arrestment by turning a lever (1) in the direction of an arrow. After setting the steering wheel, lock the lever (1) by tightening in the direction of an arrow.



F205

Angle setting of steering wheel

Setting is done by tilting the steering wheel after unlocking the lock by turning the lever (2) in the direction of the arrow. After setting the steering wheel, secure the lever (2) by retightening against the direction of the arrow.



After adjusting, tilt the lever (2) towards the dashboard and the lever (1) in such a way so that it is parallel to the steering wheel column axis. Pushing the levers in the direction farther from the steering wheel column changes the position of the levers as desired.

ACQUAINTANCE WITH TRACTOR

Front wheel drive switch



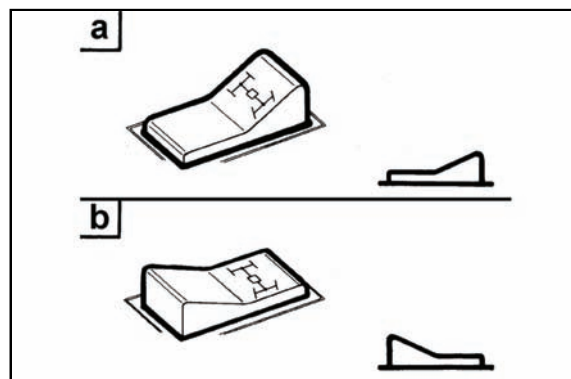
Use the front driving axle for increasing the pulling force of the tractor when rear wheels slip.

a - Front driving axle disengaged

b - Front driving axle engaged

Front driving axle is engaged at stopped tractor (braked tractor; stopped engine, switch key is switched-off).

In the basic position, the front driving axle is engaged (indicator lamp is 'ON') and disengaging of the axle is made with the switch (indicator lamp is 'OFF').



C156

Push button of rear, front differential locks

a - Differential lock disengaged

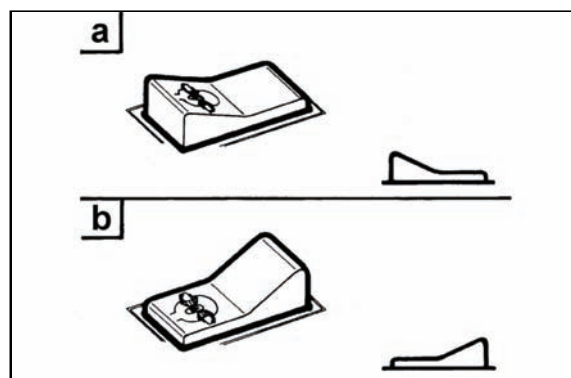
b - Differential lock engaged

The differential lock is engaged by pressing the differential lock push button that returns into the previous position after loosing.

Illuminating of the symbol on the switch indicates that the differential lock is engaged.

The differential lock is automatically disengaged after pressing the brake pedals.

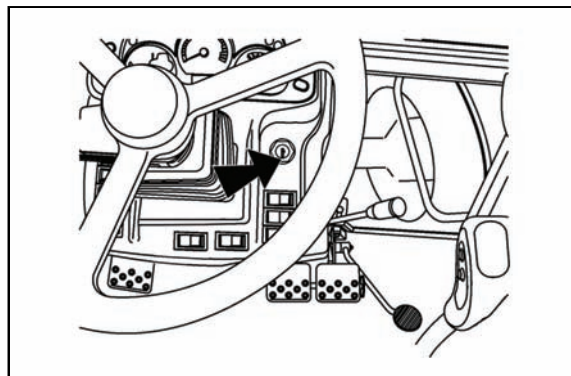
At tractors equipped with front driving axle equipped with engageable differential lock, this is engaged simultaneously with the rear differential lock engaging.



C157

Switch box

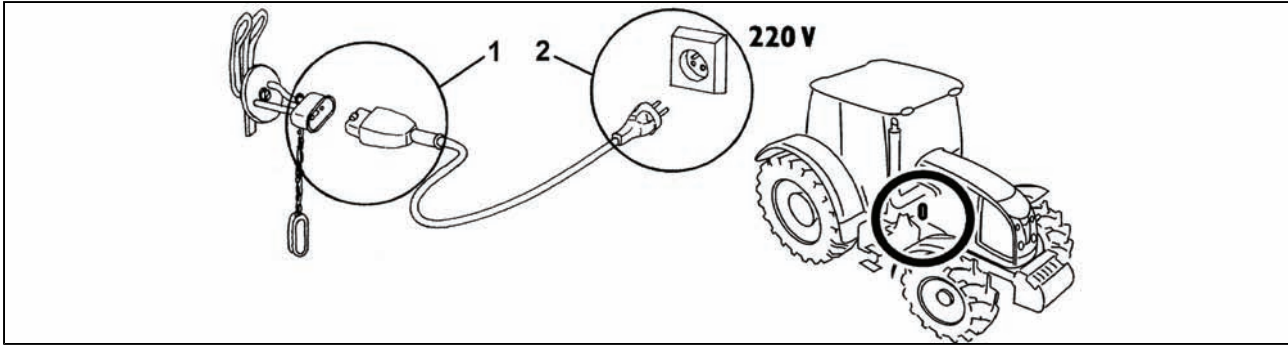
Switchbox is placed on the dashboard, see arrow.



F13BN004

OPERATION

Starting the engine while using coolant heater



G210a

With low temperatures of the surroundings, engine starting eases heating coolant. Lead-in electrical installation and its protection against dangerous contact must be done pursuant to valid regulations

1. First plug the plug to the heater.
2. Then connect heater to electrical network of the voltage of 220 V.

With regard for the lower engine wear with low temperature, the use of heater is recommended by manufacturer. The duration of heating is dependent on the surrounding temperature (1 - 2 hours before the expected start).

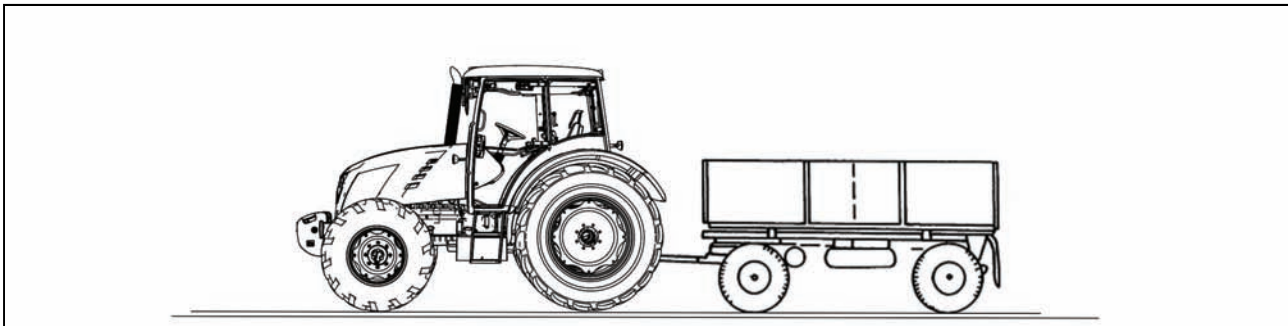


After completing the heating, disconnect the device first from electrical network and only then disconnect the plug from the heater! Danger of injury due to electricity!



It is necessary to ensure tractor operator's instruction and regular revision of coolant heater including feeding cable pursuant to valid legislation of the state where the tractor is operated at least prior to each winter period.

Drive away



C211

1. Depress the clutch pedal.
2. Shift the main shifting lever to neutral position.
3. Start the engine.
4. Set the engine speed from 800 to 850 r.p.m.
5. Select road or reduced gears.
6. Shift the reversing lever to the tractor's travel direction (to the front or reversing).
7. Engage applicable gear for tractor's start
8. Increase engine revolutions slightly.
9. Prepare manual brake for unbraking.
10. Release the clutch pedal only to the point of travel engagement and with simultaneous increase of engine revolutions continue in smooth release of clutch pedal.
11. Unbrake manual brake completely.
12. Drive away smoothly and slowly.



A very fast drive away may cause overload of driving set, increased fuel consumption, excessive tires wear and load damage. Drive away with 1st gear to be used only when driving with a heavy trailer up the slope and in difficult terrain.

NOTES

PTO DRIVE OF AGRICULTURAL MACHINES

Replaceable end points of rear PTO shaft

The tractor is equipped with six or twenty-one splined replaceable end point of rear PTO shaft.

Replacement procedure:

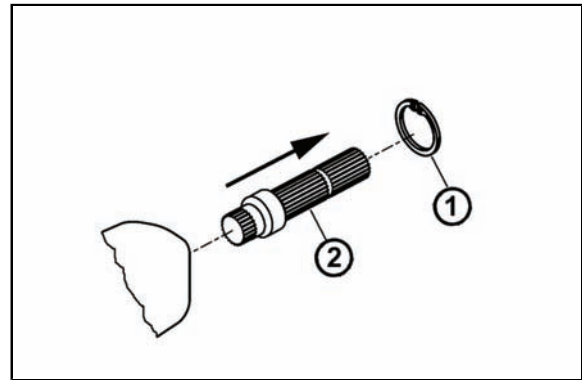
1. Use safety ring pliers to demount a safety ring (1)
2. Remove replaceable end point by pulling in the direction of an arrow (2)
3. Mount the end point in an opposite way, pay increased attention to the mounting of the safety ring (1)



Replacement of the terminal shall be performed when the engine is stopped.

Rpm of the output shaft and terminal type shall be chosen depending on the prescribed rpm of the coupled mechanism.

Shifting 540 and 1,000 or 540E min⁻¹ is possible regardless to the number of splines of the installed terminal.

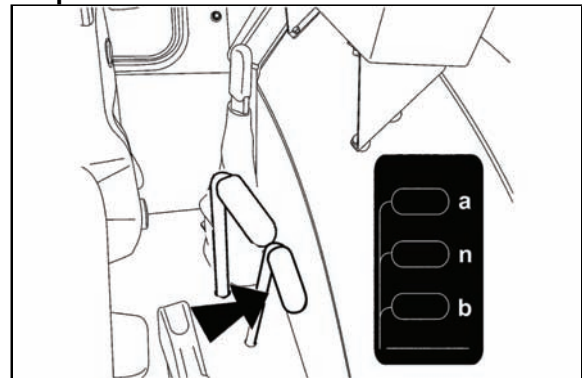


E357

Rear output shaft - shifting of dependent and independent speed of the shaft

Shifting is performed by the lever (1) when the tractor is in standstill.

- a - Independent speed of the output shaft (rpm of the shaft depends on rpm of the engine).
- n - Neutral position. Use this position to facilitate connection of the farming mechanism propeller shaft. The terminal of the rear output shaft is freely rotatable.
- b - Dependent speed of the output shaft (rpm and direction of rotation depends on the engaged gear and position of reversing lever).



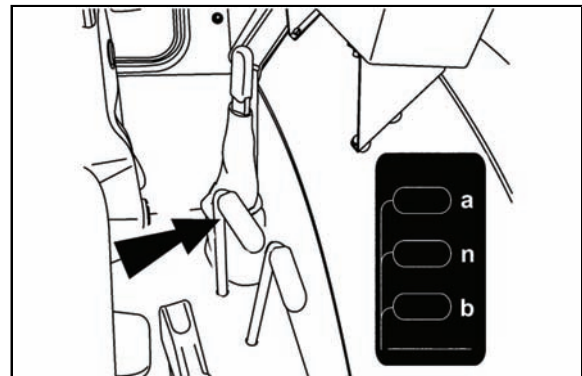
G154

PTO speed control lever

- a - 540 rpm
- n - neutral
- b - 1000 (540E) rpm

The tractor standard type is equipped only with 540 rpm and the lever is not installed.

Change is implemented when the tractor is in rest and the hand lever switching off the output shaft coupling is off.



G153a

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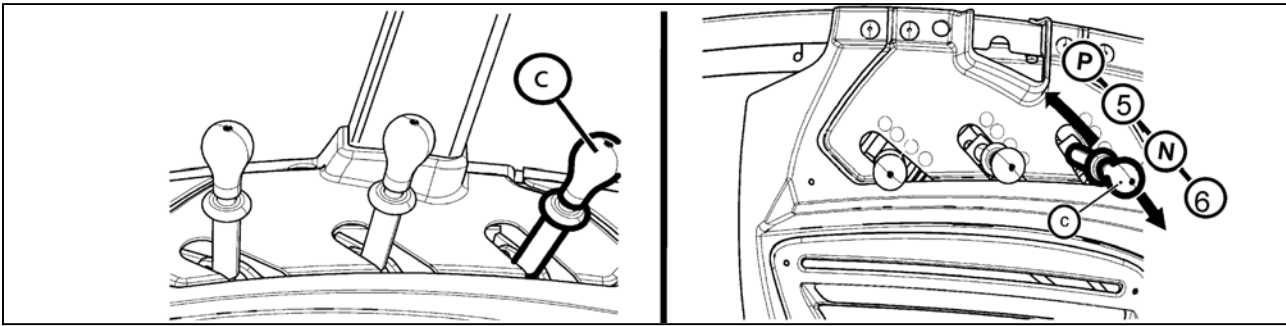
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HYDRAULIC SYSTEM

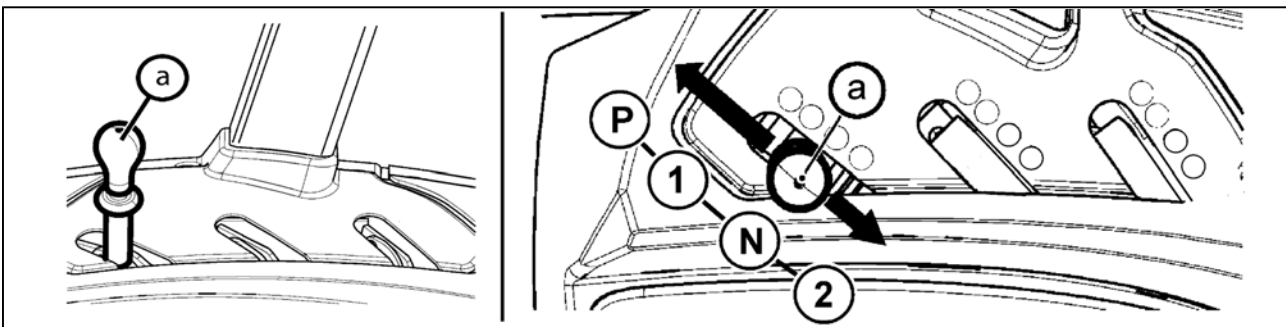


P+11n019

There are four positions of the lever (c) which controls quick couplers (5) and (6):

- N** - Neutral position. Quick coupler drives (5) and (6) are closed and oil in the hydraulic appliance connected is blocked. Lever (c) is locked in this position.
- 5** - Pressure in quick coupler (5). Quick coupler (6) is connected with the drain. It is necessary to hold lever (c) in this position, when released, lever (c) automatically returns to (N) position. In addition, quick coupler (5) is equipped with a one-way valve - convenient for connecting a tool which requires higher degree of impermeability - minimum lowering of the tool during transport.
- 6** - Pressure in quick coupler (6). Quick coupler (5) is connected with the drain. Lever (c) is locked in this position.
- P** - Floating position. Both quick couplers (5) and (6) are connected with the drain and oil is free to flow in both directions. Lever (c) is locked in this position.

Different functions of outer hydraulic circuit control levers- one section distributor



P+11N017d

There are four positions of the lever (a):

- N** - Neutral position. Quick coupler drives (1) and (2) are closed and oil in the hydraulic appliance connected is blocked. Lever (a) is locked in this position.
- 1** - Pressure in quick coupler (1). Quick coupler (2) is connected with the drain.
- 2** - Pressure in quick coupler (2). Quick coupler (1) is connected with the drain. Lever (a) is locked in this position.
- P** - Floating position. Both quick couplers (1) and (2) are connected with the drain and oil is free to flow in both directions. Lever (a) is locked in this position.

NOTES

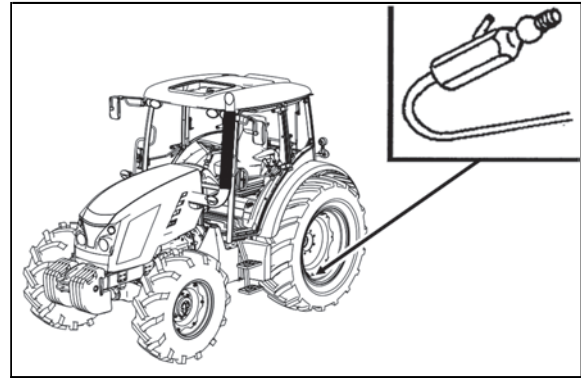
ADDITIONAL WEIGHTS

Valve for filling tyre tubes with liquid

All inner tubes of rear wheels are provided with valves that allow their filling with a fluid if an extension is used.



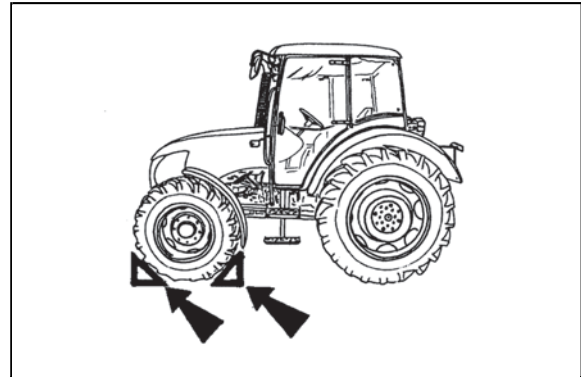
Tubeless tyres cannot be filled with any fluid! Only radial tubeless tyres can be filled with water for purpose of additional loading. Filling of tubes of the front wheel tyres and rear double wheels with a fluid is not permitted!



Chocking of front wheels

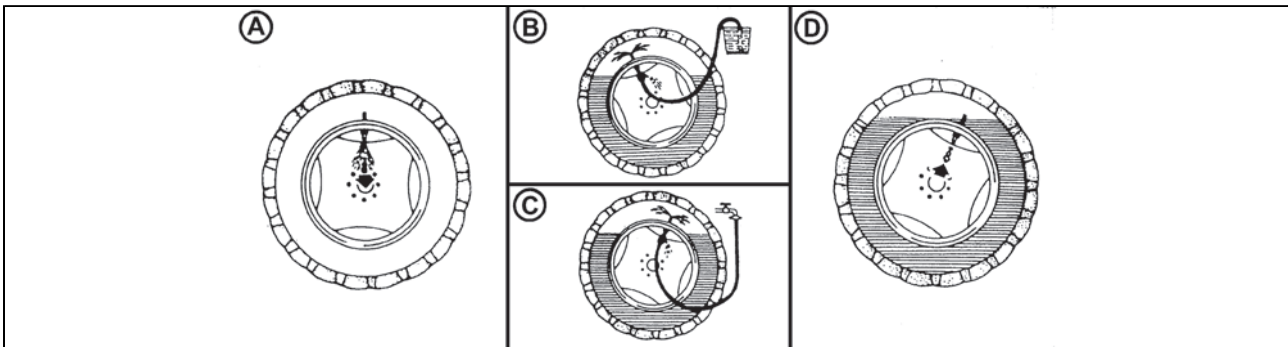


Before lifting of rear wheel do not forget to secure the tractor against any movement by chocking of front wheels!



E555

Procedure of filling the tyres with liquid



F226

1. Unload the tyre by lifting the tractor and turn it with the valve upwards (A).
2. Deflate the tyre and unscrew the valve insert.
3. Screw the adapter for water filling on and attach the liquid supply hose to it.
4. Fill the tyre with the prescribed quantity of liquid.
5. For the filling you can use a gravity tank (B) or you can fill the tyre under pressure (C).
6. Remove the hose and unscrew the adapter for water filling.
7. Screw on the valve insert and inflate the tyre to the prescribed pressure.
8. After inflating screw the protective cap on the valve.
9. Fill the other tyre in the same way.



Water must not freeze in a tyre!

TRACTOR MAINTENANCE

Steps performed outside the interval of 500 hours of work

in a new tractor or tractor after a general overhaul								
hour counter reading	100	500	1000	1500	2000	2500	3000	subsequently after every...hours
Check and adjust valve play		o					o	2000
Check the opening pressure of injectors and the function of injection nozzles							o	3000
Diesel particle filter maintenance							o	3000
Replace the hydrostatic steering hoses								every 3500 hours or once every 4 years
Check the toe-in of the front wheels					o			2000

Further actions for tractors without the front driving axle performed outside the interval of 500 Mth (hours of work)

Condition of engine hour-meter	In a new tractor or a tractor after overhaul						Always after...hours of work	
	500	1000	1500	2000	2500	3000		
Refilling of lubricating grease in front wheel hubs (max. 1/3 of the wheel hub space)			o				o	1500
Check of front wheel bearing clearance			o				o	1500

Monthly performed actions

If the tractor is equipped with the air conditioning system that has not been used, it is necessary at least once a month to switch for a minimum of 5 minutes at ambient temperature higher than 4°C.

NOTES

MAINTENANCE INSTRUCTIONS

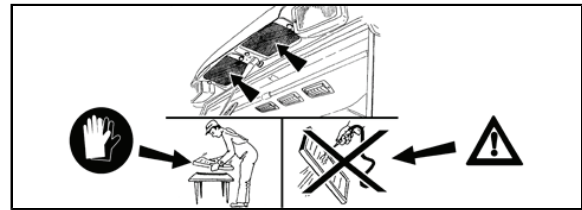
*Air filter with active carbon

Filters with active carbon are installed instead of the standard dust filter and they are replaced in the same way as the normal filters. The filter must be inserted with the white side towards the grill. The installation instructions are found on the next page.

The filter is only used during spraying of pesticides; then it must be replaced with a paper filter again as flying dust would clog the carbon filter in a very short time.

During its use the recirculation control must be in the position of 'air suctioned from the outside'.

The fan control must be in the 'maximum' position.



F13BN031

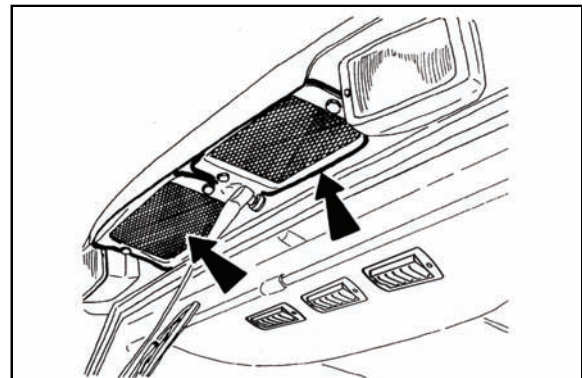
WARNING: The filter does not provide complete protection from toxic substances

- When handling the filter wear protective gloves
- Do not clean or blow the filter with compressed air

DANGER: Replace the active carbon filter every 200 hours or 36 months (the production date is printed on the filter). If you feel the smell of pesticides in the cab, replace the filter immediately and have the cab sealing checked. Used filters must be disposed of in specialized collection centres.

Carbon filter installation instructions

1. Remove the old filter from the air duct orifice in the place of its mounting.
2. Remove the protective package from the new filter.
3. Insert the filter into the air duct orifice in such a way to make the air flow direction correspond to the flow direction through the filter in accordance with the arrow on the filter. The entering air must first pass through the white dust filtration layer.
4. Check proper sealing of the filter.
5. Secure the filter.

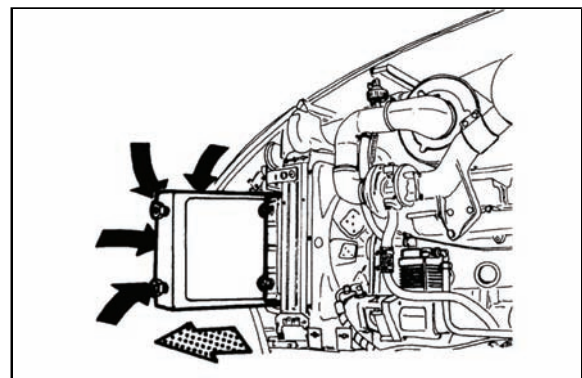


F13BN029

Air-conditioning maintenance

The most important element of maintenance of the air-conditioning system is cleaning the AC condenser (it is installed in front of the engine cooler). If the AC condenser is clogged, it does not only reduce the cooling efficiency of the AC system but also the efficiency of the engine cooling.

Remove the front side plate of the hood, release and slide the cooler towards the side and clean the condenser with pressurized air or pressurized water (against the driving direction of the tractor). Then, slide the cooler back and fix it properly. Be careful about the proper routing of hoses to the oil cooler.



F_02_120

ADJUSTMENT

Engine travel clutch adjustment

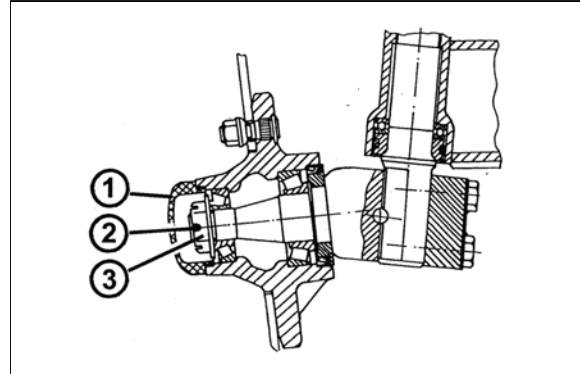
The travel clutch is designed in such manner that no adjustment is required during the entire service life of clutch plate lining. Full wear of the plate becomes evident by clutch slipping. All the three travel clutch levers must be in one plane and must be in touch with the clutch release sleeve. When replacing the travel clutch plate, adjust the clutch to the following value still at disassembled tractor. Set the travel clutch levers 25 mm from the recess in the clutch cover by means of the nuts. The difference in setting of the levers can be maximum 0,15 mm. Depress the clutch pedal approx. 5 times up to the stop after assembly of the engine with the transmission.

Play adjustment of front wheel roller bearings at tractor without front driving axle



Secure the tractor against movement!

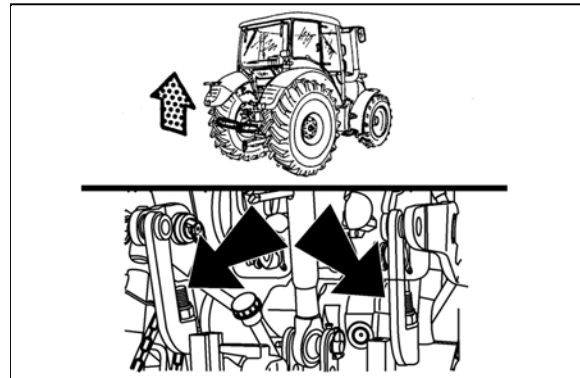
- Lift up and support the front axle.
- Screw off the bearing cover (1).
- Remove the cotter pin (2) from the slotted nut (3).
- Tighten the slotted nut (3) by torque 15 Nm.
- Loosen the nut by 180° and release the bearing by knocking with wooden mallet at the wheel hub.
- Retighten the slotted nut (3) with torque wrench by torque 3-5 Nm. It must be possible to turn the wheel freely without any evident play but without any evident resistance. (Hub sealing resistance must be taken into consideration)
- Lock the slotted nut with a new cotter pin.
- Screw in the bearing cover.



C772

Adjustment of hitch for single-axle trailers

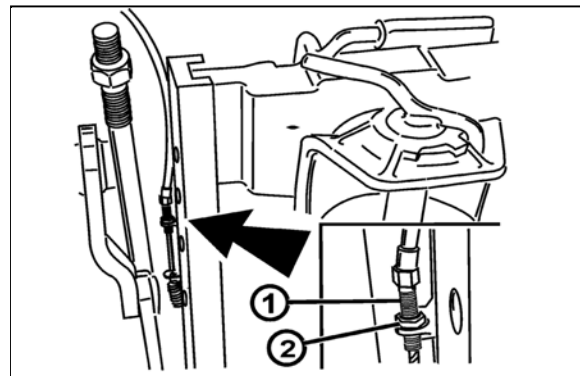
1. Lift the hydraulic arms to their upper (transport) position with selected position regulation (P)
2. Screw the nuts on the adjustable pull rods to the guide tube without any play.
3. Further tighten the nuts by 3.5 turns.
4. Check free tilting of the supporting hooks.
5. By repeated lowering and lifting of the hydraulic arms to their transport position verify free run of the engine at idle speed; the safety valve of the hydraulic pump shall not be activated.
6. Then lower slightly the arms.



E766

Adjustment of bowden cable

The hitch is in transport position. The Bowden cable shall be stretched so that there is no play on the control lever in the cabin. In case that it is stretched insufficiently, adjust it using the set screw (1). After completion of the adjustment lock the set screw by the lock nut (2).



G767

MAIN TECHNICAL PARAMETERS

Change of load capacity of front tires %

Travel speed (km.h ⁻¹)	diagonal	radial
8	+ 40	+ 50
20	+ 20	+ 23
30	0	+ 7
40	- 20	0

Change of load capacity of rear tires %

Travel speed (km.h ⁻¹)	diagonal	radial
8	+ 40	+ 50
20	+ 20	+ 23
30	0	+ 7
40	- 20	0

Permitted combinations of wheels for tractors

Front wheels		Rear wheels	
Tyre size	equivalent	Tyre size	equivalent
11,2-24	11,2R24	13,6-36	
	320/70R24	16,9-30	16,9R30 480/70R30
12,4-24	12,4R24 360/70R24	18,4 -30	18,4 R30 520/70R30
		16,9-34	16,9R34 480/70R34
		13,6-36	
13,6-24	13,6R24 380/70R24	16,9-34	16,9R34 480/70R34
		18,4-34	18,4R34 520/70R34 600/65R34

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