

ZETOR

PROXIMA POWER



85

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115

2/2009

Operator's manual

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SAFETY INSTRUCTIONS FOR USERS

FIRE PREVENTION PRINCIPLES

- 38.** Only refuel the tractor with the engine stopped.
- 39.** Do not refill fuel up to the top of the fuel tank in summer. Wipe spilt fuel immediately.
- 40.** Do not refuel the tractor near open flame and do not smoke.
- 41.** Do not smoke and do not use open flame when inspecting the battery electrolyte level. Make sure that fire safety instructions are strictly observed in environments with an increased danger of fire (hay-lofts, straw-stacks, etc.).
- 42.** If the tractor is equipped with a fire extinguisher, make sure it is always ready to use.



HEALTH AND ENVIRONMENT PROTECTION

- 41.** The tractors may be optionally equipped with special carbon filters of air suctioned into the cab. Without these filters they are not designed for work with aerosols and other harmful substances.
- 42.** Kerosene, diesel fuel, mineral oil and other oil products that are used for the operation and maintenance of the tractor may cause various skin disorders in case of direct contact with your skin and can irritate mucous membranes, eyes, the digestive system and upper respiratory

ways. Some of them may even cause systemic poisoning when swallowed.

43. Persons that handle oil products are obliged to strictly observe safety and hygienic regulations, use suitable means of protection and work in well-ventilated rooms.



WORKING WITH OIL PRODUCTS

- 44.** After the end of work or before a meal you should wash yourself with a mild agent and treat your hands with a suitable ointment or cream.
- 45.** When connecting and disconnection quick-couplers of the hydraulic circuits use any piece of cloth to remove residual oil remaining in the socket or on the plug of the quick-coupler.



WASTE DISPOSAL

46. When disposing of the tractor or its parts (incl. operation liquids) after the end of their service life you must observe relevant provisions of valid acts and implementation directives of these acts of the country where the tractor is used. The last seller of the tractor is obliged in accordance with the Waste Act to inform the consumer - during the sale of the tractor - about the way of collection of some used parts of the tractor. This is

the case of oil and other operation liquids, batteries and tyres.

PREVENTIVE DAILY MAINTENANCE

47. Perform this maintenance daily or after every 8 - 10 hours of operation at the latest.

SAFETY CAB

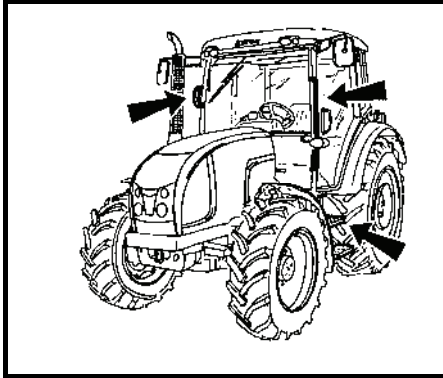
48. If the protective frame of the safety cab is damaged by corrosion, an accident or otherwise, the safety cab must be replaced.

AIR-CONDITIONING

49. Disassembling, turning or otherwise handling the screw union of the air-conditioning system is not allowed in any case. Sudden leak of the coolant may occur, causing quick local cooling. Contact or freezing of components in hands may cause serious damage of some tissues.

50. The air-conditioning system is equipped with quick-couplers that make it possible to separate the cab from the tractor body if necessary without any coolant leak. Entrust interventions into the air-conditioning system to a specialized repair shop.

ACQUAINTANCE WITH THE TRACTOR

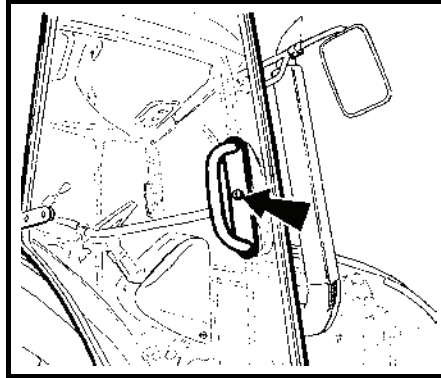


G101

SAFETY CAB



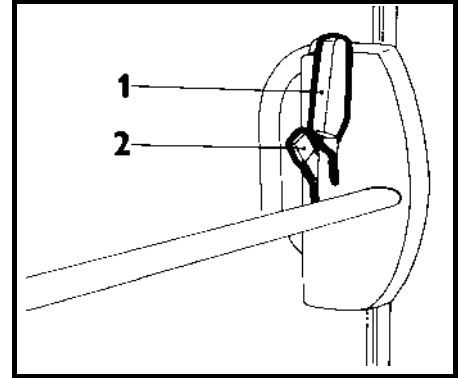
Normally use the left side of the tractor to enter and leave the cab. When entering and leaving the cab use the steps and handles. Pay increased attention in the area of the shifting lever and the manual throttle lever.



E102

DOOR OPENING FROM THE OUTSIDE

The cab doors can be locked from the outside. After unlocking depress the lock button and open the door by pulling the handle.



E103

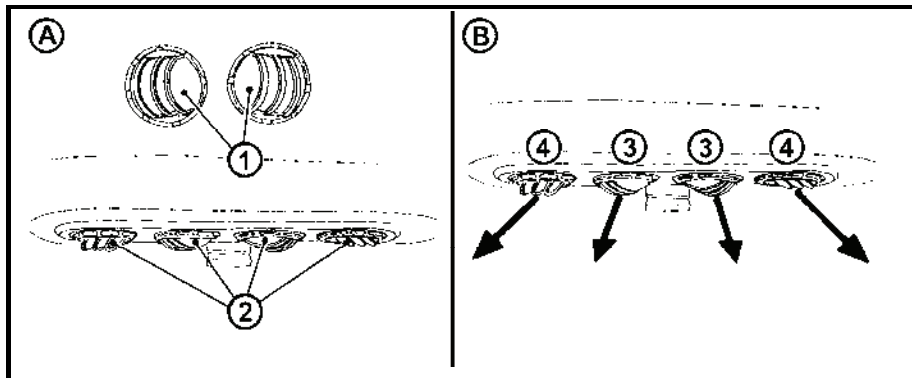
DOOR OPENING FROM THE INSIDE

1. Lever for door opening from the inside
2. Lever for lock opening from the inside
The door is held in the fully open position by a gas strut.

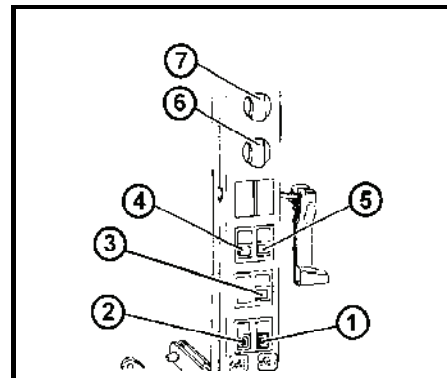


Driving with an open door is forbidden as the door may get damaged.

ACQUAINTANCE WITH THE TRACTOR



E126



X127

HEATING AND AIR-CONDITIONING OUTLETS,*RADIO SPEAKERS

A - Adjustable outlets of heating (2) and *air-conditioning (1)

Radio speakers are only installed in case of preparation for the *radio installation.

FRONT WINDSHIELD DEFROSTING

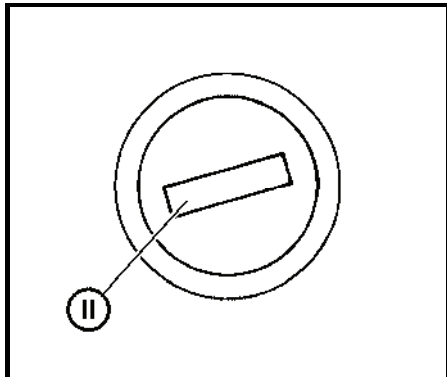
B - To ensure quick defrosting of the front windshield direct the central heating outlets (3) under the angle of approx. 45° towards the windshield. Direct the side outlets (4) under the angle of approx. 45° to the cab corners.

After defrosting of the front windshield direct the side outlets to the side glasses of the doors as necessary and gradually defrost them. After defrosting direct the outlets in such a way that the air should not be blown directly to the driver, but down to the driver's legs.

CONTROL PANEL ON THE RIGHT CAB PILLAR

1. Switching on the rear PTO
2. Switching on the front PTO
3. Rear PTO start-up speed Depending on the attached implement you can select 3 stages:
 - 1° - Light start-up
 - 2* - Medium start-up
 - 3* - Strong start-up
4. Switch of the front working lights on the cab roof
5. Switch of the rear working lights on the cab roof
6. Rear wiper switch
7. Two-position selector of the front wiper and control of the front washer

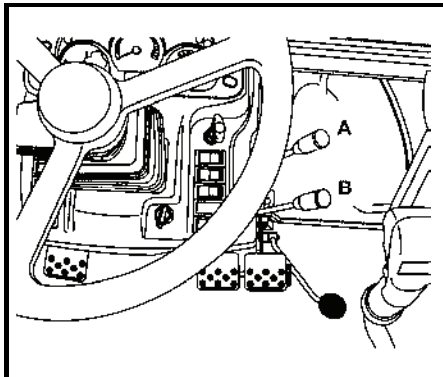
ACQUAINTANCE WITH THE TRACTOR



E143

KEY IN "II" POSITION

The key is in this position during starting of the engine and the starter and all the electric appliances are connected except wipers, washers, cab fan and air-conditioning. After starting the key automatically returns to the "I" position.

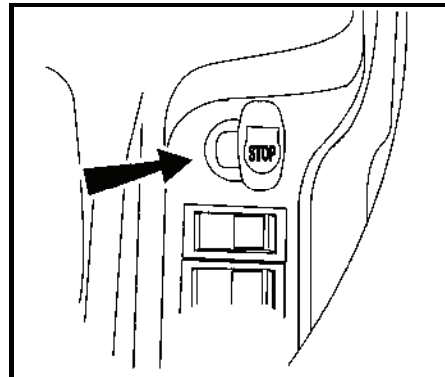


E144

MANUAL THROTTLE LEVER

A - Maximum engine speed
B - Idle run

The lever allows you to set the engine speed in the whole range A to B.




X145b

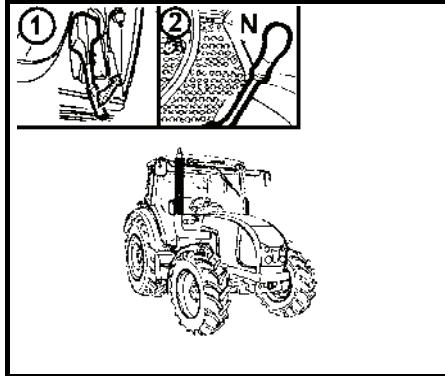
ENGINE STOPPING CONTROL

By pulling the control upwards you will stop the engine run immediately and by turning it in the pulled position you will lock its position.

When the engine run has stopped, return the control to the original position.

 *If the control remains pulled up, the engine cannot be started.*

DRIVING OPERATION



G201

BEFORE STARTING THE ENGINE

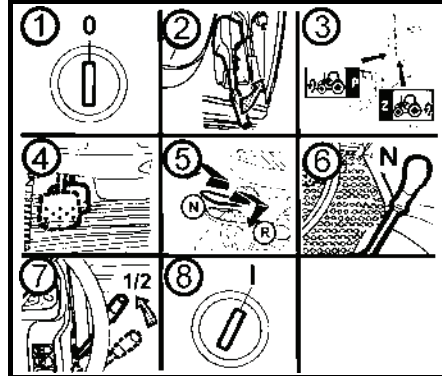


Before you start the engine, make sure:

1. that the tractor is properly braked
2. that the main gear shifting lever is in the neutral position
3. that the reversing lever is in the neutral position
4. that the PTO switches are off.

If the clutch pedal is not pressed - the engine cannot be started - the starting interlock switch is not actuated.

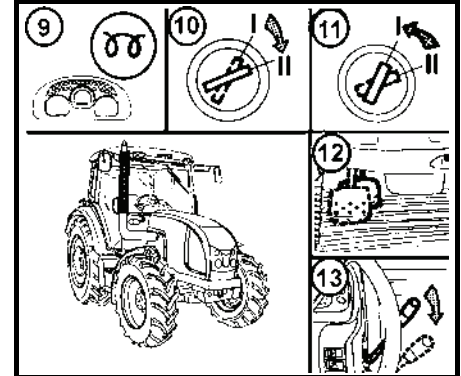
Note: Before the entire starting we recommend you to prime the fuel system with some strokes of the manual feed pump.



X202

STARTING THE ENGINE

1. Insert the key into the switching box - "0" position.
2. Check whether the tractor has been braked with the parking brake.
3. Switch off the PTO switches on the right pillar of the cab.
4. Depress the clutch pedal.
5. Move the reversing lever located under the steering wheel to the neutral position.
6. Shift the main gear shifting lever to the neutral position.
7. Adjust the throttle for increased fuel delivery (approx. 1/2 of the maximum quantity).
8. Turn the starter key from the "0" position to the "I" position. The glowing indicator will light up.



X203

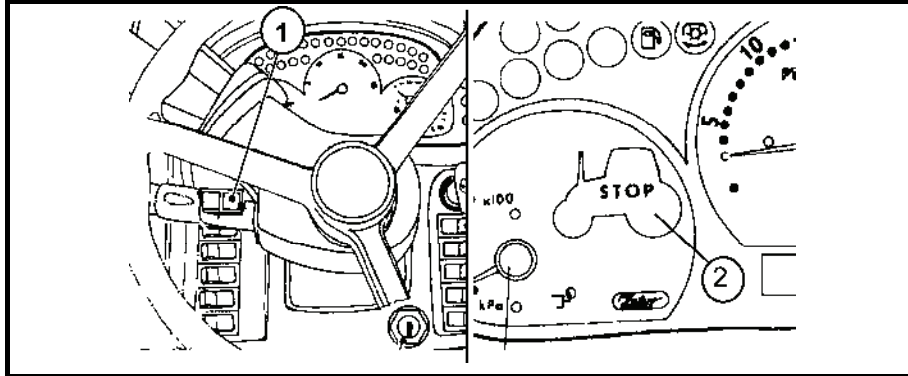
9. Wait until the glowing indicator goes off (the time depends on the temperature of the cooling liquid).



If the glowing indicator only flashes instead of lighting, an error has occurred in the glowing system (chapter Indication of errors of the glowing system). Have the reported error repaired in a specialized repair shop.

10. When the indicator goes off, immediately (within 5 s) turn the key from the "I" position to the "II" position (start).
11. After starting the engine release the key immediately, it will automatically return to the "I" position. **Do not start the engine for more than 15 s.**
12. Release the clutch pedal.
13. After starting the engine gradually reduce the fuel delivery.

DRIVING OPERATION



X1333

INDICATION OF ERRORS OF THE SYSTEM OF TRAVELLING CLUTCHES AND REVERSING

Less serious errors of the system of travelling clutches and reversing

A failure of the less serious error category is signalled by illumination of the red "gearbox error" indicator (1) and the acoustic signal sounding for 1 s. All the functions of the tractor remain active; it may happen that a function will not be fully usable. If this situation occurs, stop working and contact the repair shop.

Serious errors of the travelling clutches and reversing

A failure of the serious error category is signalled by illumination of the red "gearbox error" indicator (1) together with the "STOP" indicator (red tractor) and a continuous sound signal.

If this situation occurs, shut down the tractor and contact the repair shop immediately.



If a serious error is signalled, shut the tractor down immediately; if you continue working with the tractor, an accident and a widespread failure of the tractor may occur. Contact the repair shop without delay.

RUNNING IN THE TRACTOR



E257

FROM 100 HOURS ON

After running-in you can work with the tractor without any restrictions.

Operation regime of the tractor engines:

Recommended operation speed	1400 - 2300 rpm
Idle speed	800 ± 25 rpm
Operation oil pressure	0.2 - 0.5 MPa
Oil pressure at idle speed	min. 0.05 MPa
Max. coolant temperature	106°C

DRIVE OF AGRICULTURAL MACHINES

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Front PTO	83
Exchangeable rear PTO end pieces	84
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Drive of machines with larger inertial masses (crushers, rotary harrows, mowing machines, etc.)	85



Before connecting a machine driven by a PTO of the tractor check whether the speed of the PTO of the machine corresponds to the speed of the tractor PTO (540 rpm or 1000 rpm). Different speeds may lead to serious damages and injuries.

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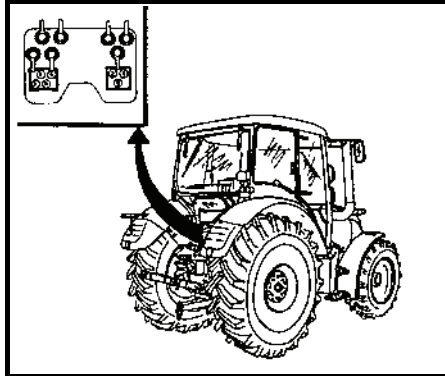
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HYDRAULIC SYSTEM

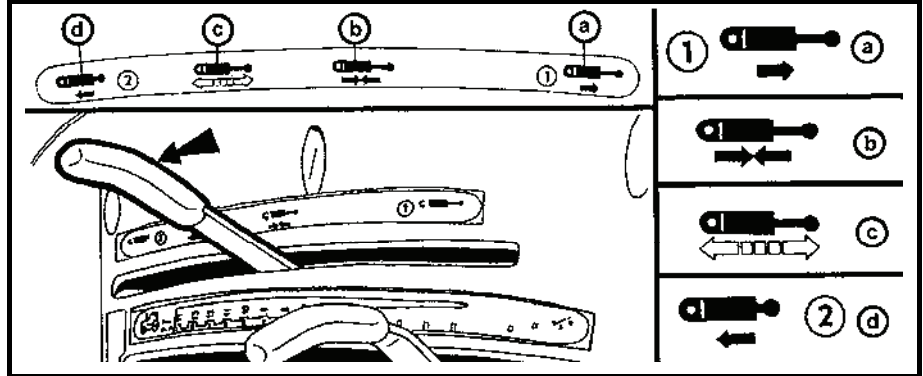


E409

OUTER HYDRAULIC CIRCUIT

The outer circuit supplies pressurized oil to hydraulic implements connected to the outer outlets of the hydraulic system terminated with quick-couplers.

The quick-couplers with the inner diameter of 12,5 mm correspond to international ISO recommendations.



E410

OUTER CIRCUIT LEVER

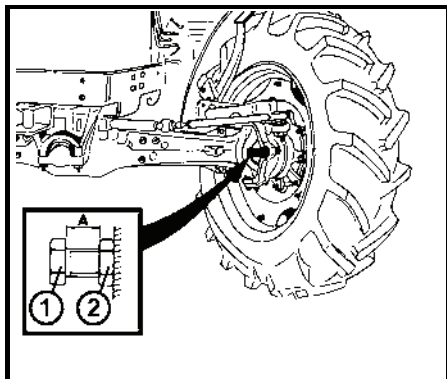
It has four positions indicated on the label.

- a** - Pressure in quick-coupler "1", quick-coupler "2" is connected to the return line. The lever is shifted to the rear limit position. It must be held in this position, otherwise it automatically returns to position "b" (neutral).
- b** - Neutral position (blocked) The outlets to quick couplers "1" and "2" are closed and oil in the attached hydraulic implement is blocked. The lever is automatically held in this position by a spring.
- c** - Floating (free) position. Both the quick-couplers "1" and "2" are connected to the return line and oil may flow freely in both directions. The lever is locked in this position by a ball lock in the slide valve.
- d** - Pressure in quick-coupler "2", quick-coupler "1" is connected to the return line. The lever is shifted to the front limit position. It must be held in this position, otherwise it automatically returns to position "c" (floating position).

HITCHES

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WHEEL TRACK CHANGE



E502

SETTING THE STOPS ON THE FRONT DRIVING AXLE

Set the stops after every change of the wheel track of the front driving axle in accordance with the provided tables after loosening the nut (2) and releasing or tightening the screw (1) to value "A". After setting the screw (1) tighten the nut (2) with the torque of 100 - 150 Nm.

Tyres	11,2-24; 11,2R24 12,4-24; 12,4R24	13,6R24; 380/70 R24
Wheel tracks	A (mm)	A (mm)
1525	61	-
1610	-	59
1620	55	-
1680	47	-
1690	-	50
1760	-	43
1770	39	-
1825	32	-
1835	-	34
1910	-	27
1920	27	-



In the case of tractors equipped with the braked front axle after a change of the front wheel track to the value of 1910 or 1920 mm it is necessary after setting the stop screws to the value of 27 mm to check the distance between the threaded end of the wheel screw and the wheel hub.

This distance must be at least 4 mm!

ELECTRIC INSTALLATION

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No additional interventions into the electric installation (connection of other electric appliances) are permissible due to its possible overloading!

During repairs of the electric installation pay increased attention to handling the battery to avoid contact of your skin or clothes with the electrolyte.

TRACTOR MAINTENANCE

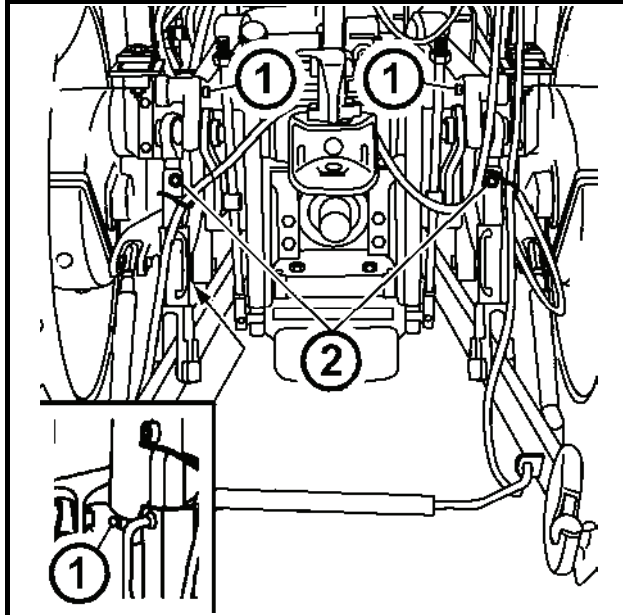
STEPS PERFORMED EVERY 500 HOURS OF WORK

- Check the tension of V-belts
- Check the whole hydrostatic steering system for play
- Check the front axle pin for play
- Check the play adjustment of the clutch and brake pedals
- Check the function of the parking and foot brake
- Check the function of the brakes for the trailer
- Clean and lubricate the terminals of the battery with a thin layer of grease
- Check the tightness and function of the pressurized air system
- Check the function of the driver's seat, lubricate the movable parts with grease

STEPS PERFORMED OUTSIDE THE INTERVAL OF 500 HOURS OF WORK

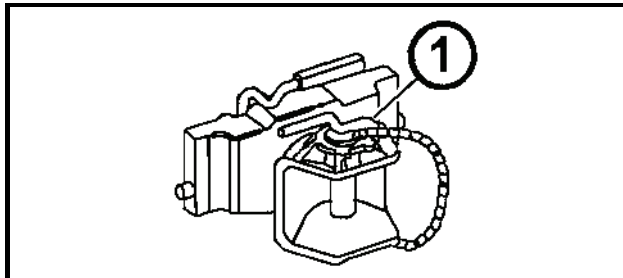
hour counter reading	in a new tractor or tractor after a general overhaul						subsequently after every ...hours
	100	500	1000	1500	2 000	2 500	
Check and adjust valve play		o				o	2000
Check the opening pressure of injectors and the function of injection nozzles		o				o	2000
Replace the hydrostatic steering nozzles							every 3500 hours or once every 4 years
Check the toe-in of the front wheels					o		2000
Calibrate the travelling clutches	o		o		o		1000

TRACTOR MAINTENANCE



THREE-POINT HITCH

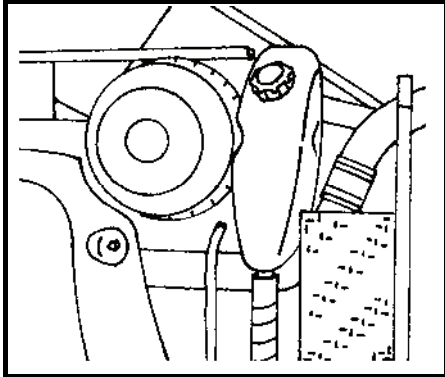
Pos. no.	Identification	No. of lubrication points
1	Pins of auxiliary hydraulic cylinders	4
2	Lifting draw-bars	2



HITCH MOUTH FOR A TRAILER

Pos. no.	Identification	No. of lubrication points
1	Hitch mouth for a trailer	1

MAINTENANCE INSTRUCTIONS



G715

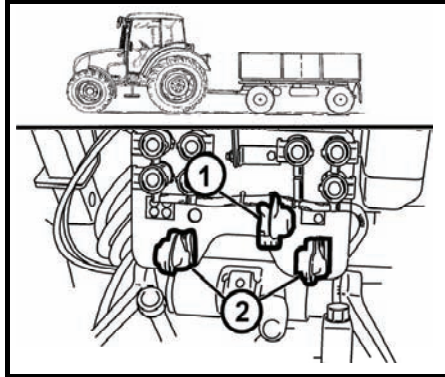
REASSEMBLY OF THE AIR CLEANER ELEMENTS

When reassembling the air cleaner elements proceed in the reverse order.

Observe the following points during the element reassembly:

- Make sure the contact surfaces are clean.
- During the assembly the elements must not get deformed and after installation they must not vibrate.
- After closing of the cleaner with the lid the whole cleaner must be perfectly leak-proof.
- After the maintenance of the dry air cleaner ensure proper functioning of the clogging indicator again.

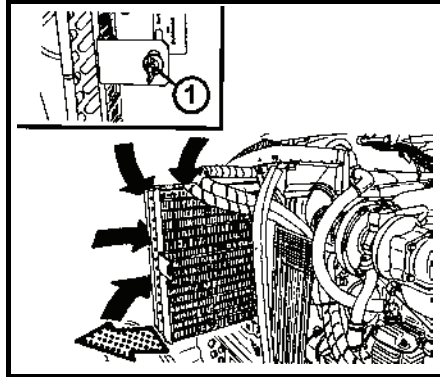
MAINTENANCE INSTRUCTIONS



X227

WORKING PRESSURE OF AIR BRAKES

In the single- (1) and double-hose (2) version the air pressure at the double-hose coupling (red cap) is 740 ± 20 kPa and at the single-hose coupling max. 600 ± 20 kPa (at the moment the pressure controller relieves the compressor - blows out the air).



E740

AIR-CONDITIONING MAINTENANCE

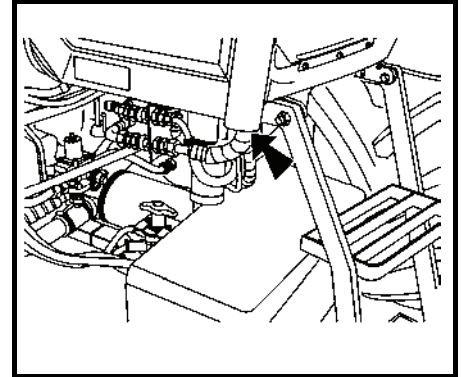


The most important element of maintenance of the air-conditioning system is cleaning the AC condenser (it is installed in front of the engine cooler).

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.

Open the hood, remove the nut (1) and slide the cooler towards the side and clean the condenser with pressurized air or pressurized water (against the driving direction of the tractor).

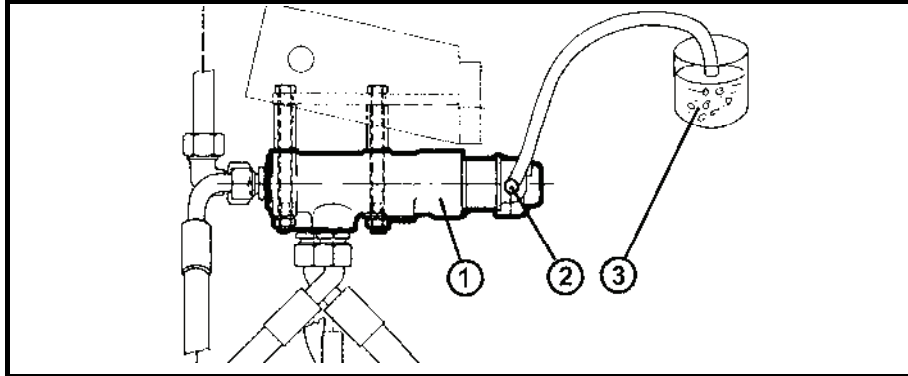
Then, slide the cooler back and fix it properly. Be careful about the proper routing of hoses to the oil cooler.



E741

When the air-conditioning functions properly, water condenses in the roof space of the cab and the condensate is drained through hoses in the cab pillars and runs out at the bottom side of the pillar. This is why you must make sure that the condensate drain hoses will not be blocked.

ADJUSTMENT



E762

4. BLEEDING THE HYDRAULIC BRAKES OF A TRAILER

Proceed as follows:

1. Fill up the missing volume of brake liquid in the equalizing tank to the maximum quantity.
2. Remove the cap from the bleeder screw (2) of the hydraulic control valve (1) of the trailer positioned on the left front holder of the cab silent-block.
3. Slide a hose onto the screw and immerse its other end to the bottom of a transparent container (3) partly filled with the brake liquid. Place the container at least 300 mm above the bleeder screw. The screw must be permanently under pressure to avoid aeration of the brake system through its thread.
4. Release the bleeder screw by 1/4 turn at the most.
5. Depress the connected brake pedals to the stop and tighten the bleeder screws.
6. Release the brake pedals and repeat the procedure until air bubbles stop escaping from the hose.

MAIN TECHNICAL PARAMETERS

MAX. PERMISSIBLE LOAD OF THE FRONT AXLE CARRARO 20.16 (KG)					
Travelling speed km/h	Wheel base (mm)				
	1525	1610 - 1620	1680 - 1690	1760 - 1770	1825 - 1835
8	4000 (4500*)	4000(4500*)	4000(4500*)	3800	3600
20	3000	3000	3000	2800	2600
30	3000	3000	3000	2800	2600
40	2500	2500	2500	2500	2500

Note:

The load only refers to the entire axle; the maximum permissible load with regard to the tyres is specified in the table “Load capacity of the front tyres”.

(*) The value refers to a front loader

MAXIMUM PERMISSIBLE LOAD OF THE REAR AXLE (KG)							
Travelling speedkm/h	Wheel base (mm)						
	1350	1425	1500	1575	1650	1725	1800
8	5500	5500	5500	5500	5500	5200	5000
20	5000	5000	5000	5000	5000	4500	4300
30	5000	5000	5000	5000	5000	4500	4300
40	5000	5000	5000	5000	5000	4500	4300

Note:

The load only refers to the entire axle; the maximum permissible load with regard to the tyres is specified in the table “Load capacity of the rear tyres”.

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