

Rapid Instructions Booklet

Gemini 6000

Combined Seed and Fertiliser Drill



Starting from the serial number AA 49702



Read the instructions booklet before use!

Original instructions

GENERAL SAFETY INSTRUCTIONS



The driver must especially take care that there are no people close by when the machine is driven from driving position to seeding position and vice versa. **RISK OF SQUEEZING!** Also, when the machine is being reversed it must be ensured that there are no people behind the machine. The danger area is 20m.

The highest permitted driving speed in good conditions is 30km per hour. Special care must be taken and speed must be reduced when driving on uneven ground. It is preferable to perform moves when hoppers are empty. **WHEN DRIVING WITH FULL HOPPERS THE HIGHEST PERMITTED SPEED IN GOOD CONDITIONS IS 25KM PER HOUR.** It is forbidden to transport loads on top of the machine. Avoid driving over stones and other obstacles to prevent tyres from bursting.

The fold mechanism's locking latch must be locked securely before the machine is driven on the road, picture 26. (Folding the machine from seeding position to transfer position, steps 4 and 6)

The markers must be locked mechanically into upper position before the machine is driven on the road or when the machine is parked and the driver is not present.

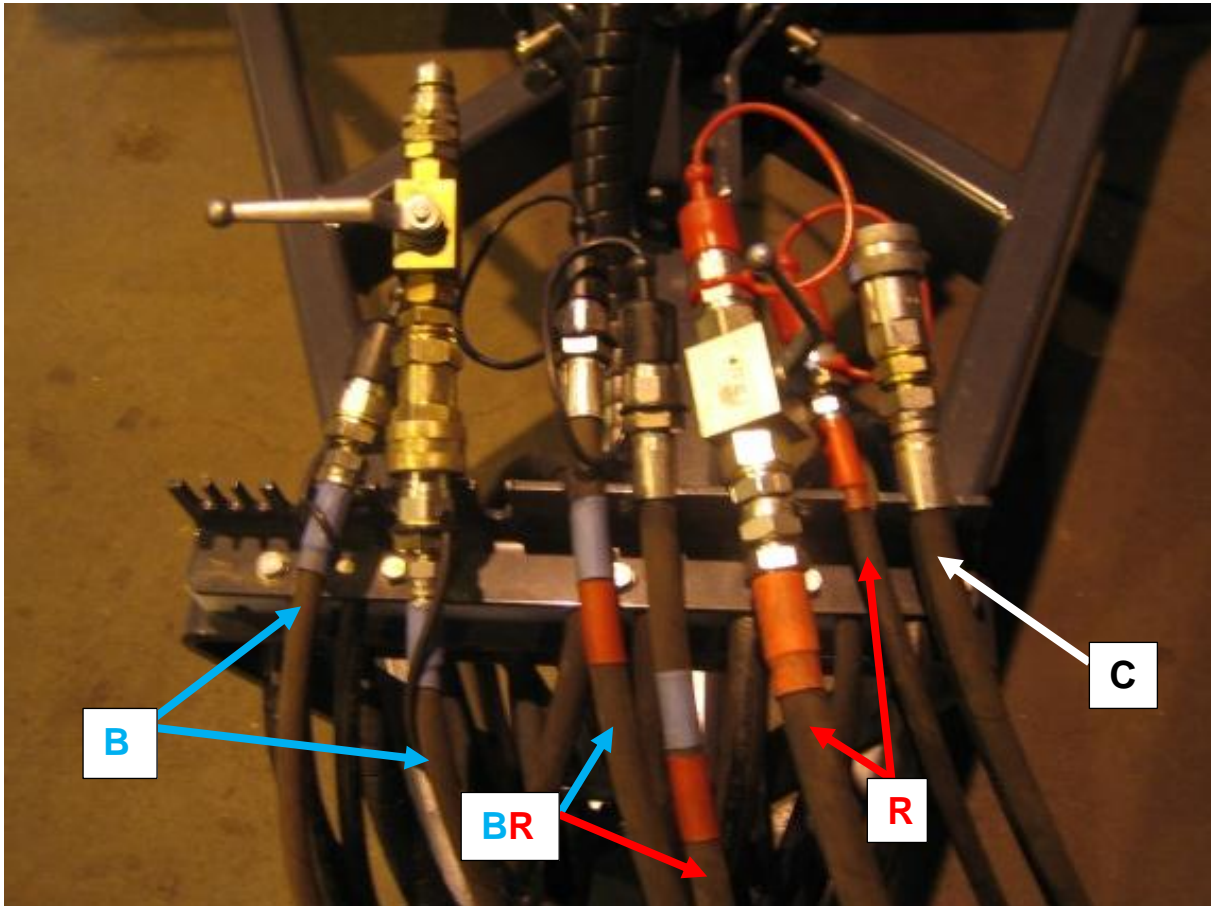
Be especially careful when raising and lowering sidesteps and the rear harrow.

Leave more demanding repairs to an authorised repair shop for this model.

Read the rest of the instructions in the Nova Combi 6000 instruction booklet!

CONNECTING THE MACHINE TO THE TRACTOR

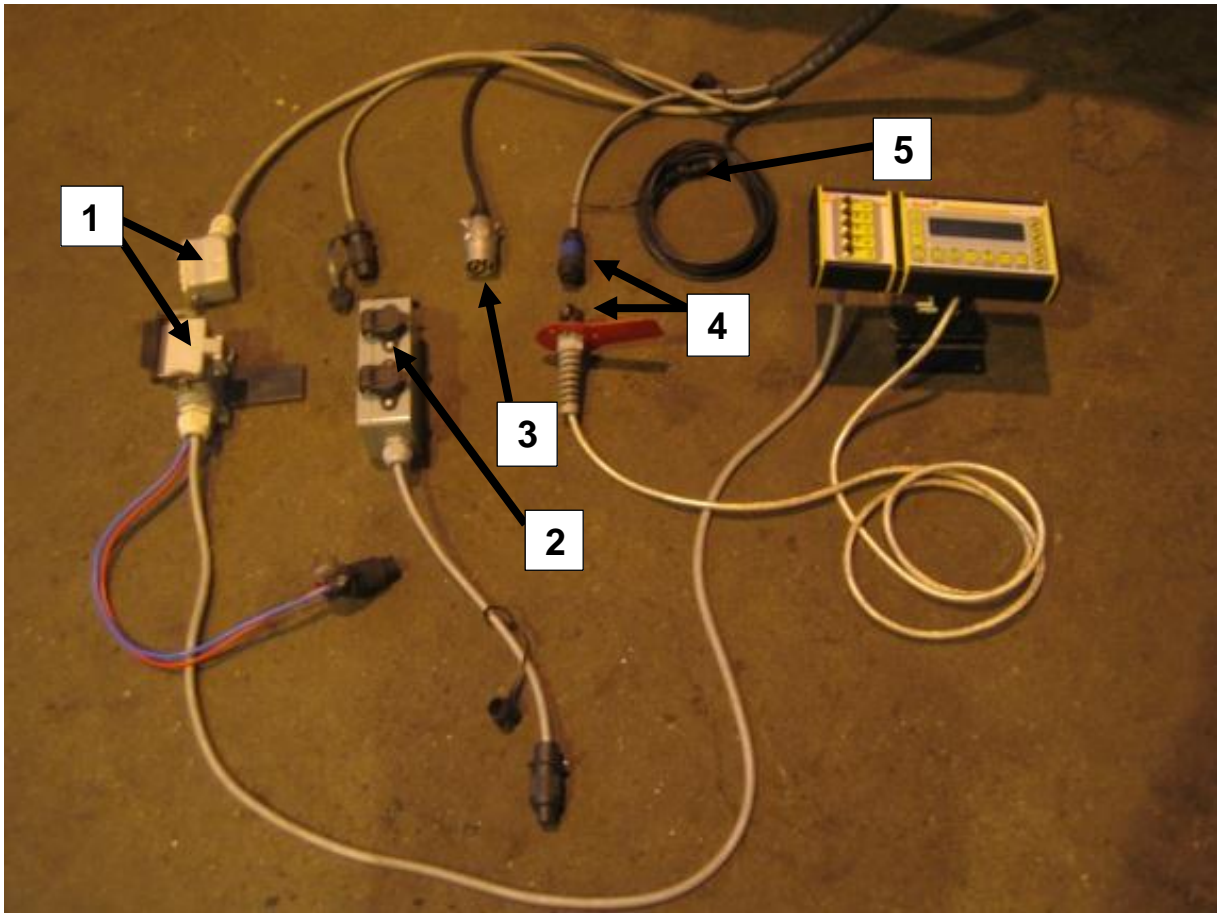
The machine needs 3 dual-operating tractor hydraulics power takeoffs and one free pressureless return: picture 1. If the machine also has a front drag, another dual-operational power takeoff is needed. The machine's controls need two electric sockets for steering as well as one light socket: picture 2.



Picture 1. The machine's hydraulic connections

The hydraulic connections in Picture 1 from left to right:

Colour	Function	Connection in tractor
B blue:	Shaft cylinder	Dual-operating
BR blue / red:	Fold	Dual-operating (floating)
R red:	Machine's raising and markers	Dual-operating
C Colourless:	Free return	tractor tank



Picture 2. The machine's electric connections

The electric connections in Picture 2 from left to right:

Number	Operation	Connection in tractor
1. big connector	Fold controls	
2. distributing box	Electric feed for the fold, AgroCont and camera	current connector
3. light socket	Tail lights	light connector
4. small connector	AgroCont communications	
5. camera connector	Connected to the camera screen	

The machine's control unit is shown in Picture 3. The fold's control switches are on the left side of the controls. This unit's symbols are referred to further on in these instructions. The normal AgroCont control unit is on the right.



Picture 3. Control unit

NOTICE WHEN USING THE MACHINE

When driving the machine both in transport and seed the lifting hydraulics is set to the floating position. **Especially the fold hydraulics has to be kept in floating position always, when the hub motor is not used.**

To assure the hub motor function without trouble the machines free return hose must absolutely be connected directly to the tractors tank without any counter pressure.



Hub motors fuse hose. Protects the motor, if return line is forgotten to connect or is blocked up. **MUST ABSOLUTELY BE USED SUITABLE DIMENSIONED, ONLY LOW PRESSURE LASTING HOSE! RISK TO BREAK THE HUB MOTOR!**

Picture 4. Hub motors fuse hose.

STARTING TO USE THE MACHINE

FOLDING THE MACHINE FROM DRIVING POSITION TO SEEDING POSITION

1. Turning the auxiliary wheel to the right position by reversing: Picture 5. Picture 6 shows the correct direction of the wheel. The wheel pushes the machine in regard to its moving direction. Direction using the camera: Picture 7. The wheels of both machines are lowered, but there is no hoisting pressure to the wheels of the front machine: Picture 8.



Picture 5



Picture 6



Picture 7



Picture 8

2. Go and release the machines' locking: the mechanical lock and the rear wheels hydraulics release for the front machine: Pictures 9 and 10.



Picture 9



Picture 10

3. Press the **Drive** button and the green light next to the button comes on. Starts the fold controls.



4. Press the **Fold** button and the red light next to the button comes on and the **Drive** light goes out.



Use hydraulics to turn the rearmost machine. The rearmost machine turns to the side of the front machine, locks in place and moves alongside: Pictures 11-14. If needed, adjust the machines to the same level by raising or lowering the hitch.

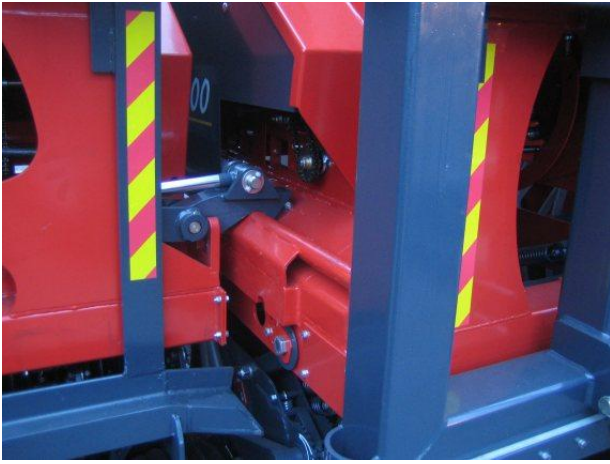
NOTE! If needed, the machine can be turned backwards, in which case the direction of the auxiliary wheel must be locked. Perform locking by opening the valve in Picture 15: position shown. In Picture 15 the wheel direction locking is also open. Reversal is performed by turning the hub motor to the other direction. Then the auxiliary wheel's direction locking cylinders lock the direction of the wheel. Respectively, when driving to the right direction, the direction locking is released. In this case the valve in Picture 15 must be closed. Make sure, that locking cylinders are fully in before closing the valve. **The machine is not allowed to move either forwards or backwards, if the locking cylinders are not fully in. Cylinders may damage!**



Picture 11



Picture 12



Picture 13



Picture 14



Picture 15

5. Press the **Hitch** button and the red light next to the button comes on and the Fold light goes out.



Use hydraulics to move the hitch between machines: Pictures 16 and 17. Take care that the machines are on the same level.



Picture 16



Picture 17

6. Press the **Wheel** button and the red light next to the button comes on and the Hitch light goes out.



Use hydraulics to lift the auxiliary wheel up: Picture 18.



Picture 18

7. Press the **Seed** button and the green light next to the button comes on and the Wheel light goes out. Stops the fold controls.



The machine is now in the seeding position: Pictures 19 and 20.
Turn lastly the rear harrow tines to the right working angle. Also set the fold hydraulics valve in floating position.



Picture 19



Picture 20

FOLDING THE MACHINE FROM SEEDING POSITION TO DRIVE POSITION

1. Turn the right machines rear harrow tines to drive position: Picture 35. Turn the side lock of the machines in lock position: Picture 9. Do not yet turn on the lockers safety lever. Press the **Seed** button and the green light next to the button comes on. Starts the fold controls.



2. Press the **Wheel** button and the red light next to the button comes on and the Seed light goes out.



Use hydraulics to lower the auxiliary wheel: Picture 21. Take care that the machines are on the same level. Turn the auxiliary wheel to the correct position: Picture 22. The wheel must be in a pushing position in regard to the movement direction: Picture 23.



Picture 21



Picture 22

3. Press the **Hitch** button and the red light next to the button comes on and the Wheel light goes out.



Use hydraulics to move the hitch to the front of the front machine: Picture 23.



Picture 23

4. Press the **Fold** button and the red light next to the button comes on and the Hitch light goes out.



Use hydraulics to turn the rearmost machine behind the front machine. The rearmost machine moves to the rear: Picture 24, front locking is released: Picture 25, and the machine turns to the rear: Picture 26. Finally the mechanical side lock is locked: Picture 27.

NOTE! If needed, the machine can be turned backwards the same way as shown in step 4.



Picture 24



Picture 25



Picture 26



Picture 27 (Safety Instructions)

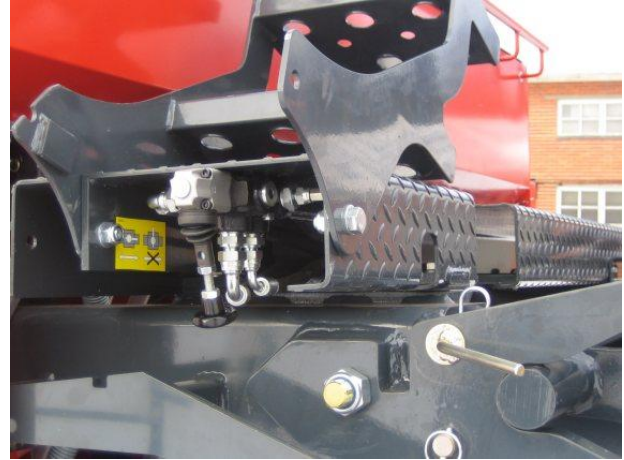
5. Press the **Drive** button and the green light next to the button comes on and the Fold light goes out. Stops the fold controls.



6. Go and check the machines' locking and turn the valve lever, so that the rear wheel hydraulics of the front machine are locked: Pictures 28 and 29.



Picture 28



Picture 29

7. **SET THE MACHINES RAISING AND FOLD HYDRAULICS IN FLOATING POSITION!** The machine is ready for driving.



Picture 30

HYDRAULIC REAR HARROW FUNCTIONS

Hydraulic rear harrow is raised automatically when the machine is raised. The raising speed is controlled with the control valve shown in Picture 33. The valve is situated under the left back stage, blue knob. The moment when the rear harrow starts to rise/ fall, when the machine is raised/lifted down can also be controlled. Adjust the magnet in the right side machines stress indicator element: Picture 34. **NOTE! The machine must not be reversed, when the rear harrow is on the ground.**



Picture 31: Rear harrow in seeding position



Picture 32: Rear harrow raised in the machine's seeding position



Picture 33: Rear harrow's control valve



Picture 34: Control of the moment the rear harrow is raised



Picture 35: Rear harrow position before folding to driving position



Picture 36: Rear harrow locking dowels in driving position



Picture 37: Folding progress



Picture 38: Rear harrow in driving position.

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