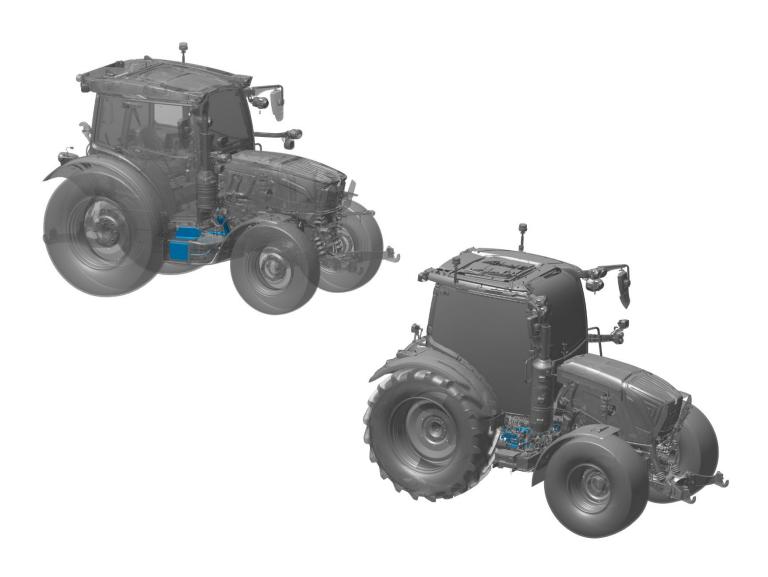
Programming Instruction



Extra Valves 5th and 6th Extra Valves | 200 Vario Gen3 & 300 Vario Gen4



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Original Programming Instruction



Dear customer

Please note the following:

This programming instruction is only valid in conjunction with the operator's manual for the vehicle.

- Before using the machine, carefully read through the operator's manual and familiarize yourself with all operating controls and their functions before you begin work. This also applies to the operator's manual for implements.
- Observe all the operating and maintenance instructions. If you do so, your machine will give you many years of cost-effective and fault-free operation. You will find an overview of all maintenance operations in the maintenance schedule in this maintenance manual.
- Maintenance and repair work should only be carried out at your service workshop.

Disregarding the symbols and the associated safety instructions, which are divided into three hazard levels, can lead to considerable damage to the machine, the mounted implements or other property. Adhering to the safety instructions is also required in order to prevent such damage from occurring.





Authorized use

The extra valves are designed exclusively for use in standard agricultural applications or for similar purposes. Any other type of use is considered unauthorized. The manufacturer will not be liable for any damage resulting from such use, which will be entirely at the owner's risk.

Authorized use also includes observing the operating, maintenance and repair conditions set out by the manufacturer in order to protect your claims under warranty if necessary.



Special attention must be paid to safety instructions marked with this symbol, as well as the words DANGER, WARNING and CAUTION.

The warning symbol indicates important safety notes on machines and safety stickers and in operating instructions and other places. If you see this symbol, be aware that there is a risk of injury or death. Observe the instructions in the corresponding safety notes.

Operation, maintenance and repair of the extra Valves may only be carried out by people who are familiar with this equipment and aware of the associated dangers.

All relevant accident prevention regulations must be observed, as must as any generally acknowledged safety, industrial health and traffic regulations. The manufacturer does not accept liability for damage resulting from unauthorized modifications to the machine.

As it is working equipment, children and young people should not be taken on board or transported on the vehicle. However, if children or young people are in the vehicle, the operator must be aware that they require strict supervision. Children and young people on board must not be allowed to operate the technical controls of the vehicle or implements mounted on it. Under no circumstances may children or young people remain alone in the cab when the operator leaves the vehicle.

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How to use this manual

Transport damage and missing parts

Examine the machine and parts carefully for possible damage that occurred during transport. Speak to the person that is responsible for transport immediately if you find damage. Make an order for missing parts.

General

If more assistance is necessary, you should speak to your AGCO dealer. This manual is only applicable to the models specified on the front cover.

Fastener torques

Always replace fasteners with fasteners of the same specification. Tighten all fasteners to the correct torque values.

You can find the list of torque values in the service manual or the assembly instructions of the machine. If the torque value is different, it is specified in the procedure.

Special tools

If it is necessary to use a special tool in a procedure, the tool identification is specified in the procedure.

Illustrations

The illustrations do not always show the same machine specification or machine configuration. The procedure is the same unless the instruction tells you differently.

The illustrations in this manual use a colour system to help you follow the instruction correctly.

Colour	Description	Functions
	Target/focus item The primary component in the step is this colour.	Primary component, decal location, component location





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1 Safety

1.1 Safety Icons

NOTE: The use of the signal words DANGER, WARNING and CAUTION with the safety messages. The signal word for each message will use the structure that follows:



DANGER: Danger

Shows data on a possible hazard that if you do not prevent death or injury will occur.



WARNING: Warning

Shows data on a possible hazard that if you do not prevent death or injury will occur,

these will include hazards that occur when guards are not in position.



CAUTION: Caution

Shows data on a possible hazard that if you do not prevent can cause small or moderate injury or component or property damage.



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Secondary information

Two types of secondary information are shown when necessary.

IMPORTANT: This is an immediately dangerous situation which, if you ignore it, can cause damage to the machine or adjacent area.

NOTE: Specified data for procedures or components.





1.2 Safety instructions



Make sure that you have the Operator's and Workshop Service Manual for the machine you are to install the kit to. Read and obey all safety instructions in the Operator's and Workshop Service Manual of the machine before you continue with these instructions.

If you do not obey the instructions, there is a risk of injury.

In most conditions you can prevent injuries if you see dangerous situations before an injury occurs.

The person that installs this kit must be an approved technician and have the necessary tools.

Do not change the equipment. An adjustment not specified by the manufacturer can change the function of the machine and cause damage or personal injury.

Only use AGCO approved replacement parts.



WARNING:

To prevent injury and machine damage, you must:

- Use the Personal Protective Equipment (PPE) applicable to the task.
 - Eye protection
 - Hand protection
 - Foot protection
 - Ear protection
- Park the machine on a solid level surface.
- Disengage the PTO, if installed.
- Set the transmission to park and apply the parking brake.
- Set the control console to OFF.
- Stop the engine and remove the key.
- Look and listen! Wait for the parts that move to stop before you start the work.
- Put wheel chocks in front of and behind the wheels before you do work on or below the machine.
- Remove or release all sources of energy, for example:
 - Disconnect the negative terminal of the battery.
 - Release of pressure from a system.
 - Lock the parts that move.
- Clean the oil, dirt, and crop material from the area on the machine where you do the work.

Good safety procedures prevent accidents to you and each person near you.





1.3 Waste disposal

Incorrect disposal of waste can cause pollution to the environment. Some examples of dangerous waste materials include oil, fuel, coolant, battery chemicals and air-conditioning refrigerant.

- Only use an approved container to collect the waste material. Always seal the container after you drain the fluids.
- Do not drain or spill waste on the ground, down a water drainage system or into water sources.
- Air-conditioning refrigerant released into the air can cause damage to the environment. The local regulations recommend that only an approved technician removes and recycles the air-conditioning refrigerant.
- Obey pollution laws.
- Speak with the local authorities on the correct procedure to discard of the waste.

Recycling centers or approved dealers have the correct equipment for the disposal of used oil.



Do not discard material with this symbol in the general waste.



Recycle used materials with this symbol.





2 Introduction

2.1 Preparation

1. To activate the features for the new valves, the features must be requested in CPQ Aftersales.

Kit number: 002H382298990

NOTE: For further information open the TechConnect Help. Open the Chapter "How do I...".

Select "Request Feature Activation".

2. Check if the new Features are available for the machine.

NOTE: This step can be performed without connection to the machine.

NOTE: For further information open the TechConnect Help. Open the Chapter "Tech Connect Diagnostics". Select "Feature Configurations Panel".

3. These Hardware Features must be available.

HW HW_VALVE_BOSCH_EHS1_PLUS_5
HW HW_VALVE_BOSCH_EHS1_PLUS_6

4. These Software Features must be available.

SW HYD_ELECTRIC_VALVE_5_120L SW HYD_ELECTRIC_VALVE_6_120L





2.1.1 Software Update

- 1. Check if a Software Update is available.
- 2. Perform the Software Update.

NOTE: For further information open the TechConnect Help.

Open the Chapter "Tech Connect Diagnostics". Select "Flash Machine".



2.1.2 Feature Update

1. Before starting the valve programming, the features must be updated.

NOTE: For further information open the TechConnect Help. Open the Chapter "Tech Connect Diagnostics". Select "Flash MCF".

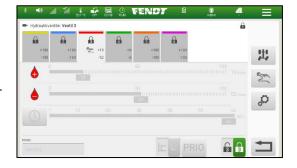
2. Perform the Feature Update.

IMPORTANT: Follow the instructions of the TechConnect prompt!

3. Check if the Features are accepted. 5th and 6th Valve must be visible in the valves tile of the FendtOne terminal.

NOTE: The visible valves can differ, depending on your machine settings.











2.2 Teach valves ID's

1. Reteach existing valves 1st (yellow) to 5th (brown) and 2nd (blue) to 6th (violet). Teach the valves sequentially.

IMPORTANT: Make sure that the electrical connections of the new valves are not connected yet!

2. To start the procedure, open the tab "Component Replacement"

NOTE: For further information open the TechConnect Help. Open the Chapter "Tech Connect Diagnostics".

Select "Navigate the Component Replacement Menu".

3. Select "ECU Group" "Hydraulic Valves".

NOTE: The program will search existing valves.







2.2.1 Reteach existing valves

1. Reteach 1st valve to 5th valve.

As "Source" select "Hydraulic spool valve AUX 1".

As "Target" select "Hydraulic spool valve AUX 5".

2. Perform the teaching with "Program".



3. Reteach 2nd valve to 6th valve.

As "Source" select "Hydraulic spool valve AUX 2".

As "Target" select "Hydraulic spool valve AUX 6".

4. Perform the teaching with "Program".





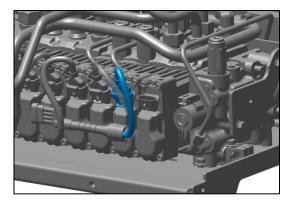


2.2.2 Teach new valves

1. Plug in the new 1st valve.

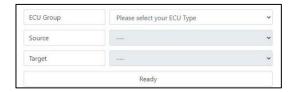
NOTE: Choose the best fitting connector depending on the length of the adapter cable.

IMPORTANT: Connect only the 1st new valve!



2. Change "ECU Group" to "Please select your ECU Type".

NOTE: The program will only search for new valves if the ECU Group has changed.



3. Change "ECU Group" to "Hydraulic Valves" to initiate searching for connected ECUs.

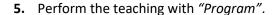
NOTE: The program will search existing valves.



4. Set Source and Target ECU.

As "Source" select "Spare Part ECU".

As "Target" select "Hydraulic spool valve AUX 1".



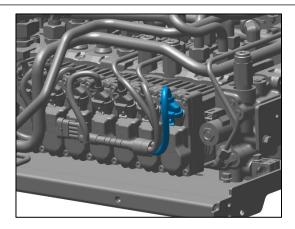






6. Plug in the new 2nd valve.

NOTE: Connect the only remaining plug.



5. Change "ECU Group" to "Please select your ECU Type".

NOTE: The program will only search for new valves if the ECU Group has changed.



7. Change "ECU Group" to "Hydraulic Valves" to initiate searching for connected ECUs.

NOTE: The program will search existing valves.



8. Set Source and Target ECU.

As "Source" select "Spare Part ECU".

As "Target" select "Hydraulic spool valve AUX 2".



9. Perform the teaching with "Program".

Teaching finished. Resume to the valves installing instruction.



