

Operating Manual

AMAZONE

AMATRON⁺ Download Manager



MG3726
BAG0091.0 03.10
Printed in Germany



Please read this operating manual before commissioning. Keep it in a safe place for future use.

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1 General information

This chapter contains general information and basic requirements for programming with the Download Manager.

1.1 Required components

For programming with the Download Manager, you need the following components and applications.

- Latest version of the Download Manager
- Software to be installed for machine computers or **AMATRON⁺** terminals
- A null-modem cable
- Optionally, a USB to RS232 adapter
- A PC (laptop)
- **AMATRON⁺** system with 12V power supply

1.2 Connecting the PC

- **AMATRON⁺**: Connect the null-modem cable to the serial interface (connector beneath the  button).
- PC: Connect the null-modem cable to the serial interface (if necessary using the USB to RS232 adapter).

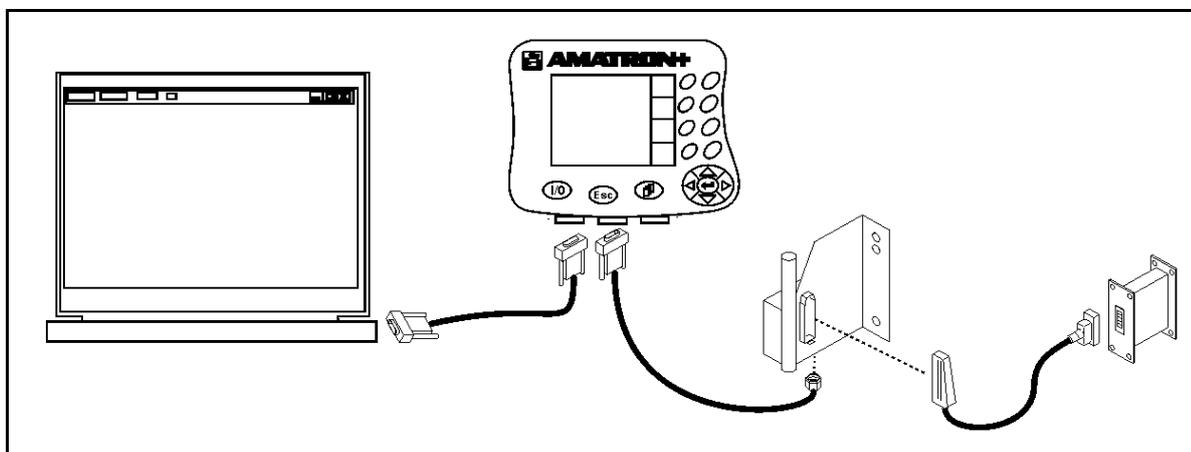


Fig. 1



The **AMATRON⁺** must be connected to the machine computer via the machine basic equipment.

1.3 Programmable computers

All computers with the following software version or a more recent version with a higher ID can be programmed:

- **AMATRON⁺** terminal (NI064) BIN version: 3.00
- Machine computer with old hardware (with metal side panel)

- o Spreader (NI031) MHX version: 2.00
- o Sprayer, basic (NI097) MHX version: 5.1.5
- o Sprayer, hydraulic (NI035) MHX Version: 5.2.5
- o Seed drill, basic (NI091/092) MHX version: 2.00
- o Seed drill, hydraulic (NI093) MHX version: 2.00
- **Machine computer with new hardware (with plastic side panel)**
 - o Sprayer, basic (NI070) MHX version: 7.00.01
 - o Sprayer, hydraulic (NI099) MHX version: 7.00.02
 - o Seed drill, basic (NI081 / 082) MHX version: 6.00.01
 - o Seed drill, hydraulic (NI083) MHX version: 6.00.02
 - o EDx, basic (NI069) MHX version: 5.18.01
 - o EDx, hydraulic (NI090) MHX version: 5.18.02
- **Mini machine computer** All mini machine computers can be programmed via the Download Manager.

1.1 Layout of the programme window

Fig. 2: Overview of the layout of the Download Manager

The programme window is split into 4 areas:

- (1) the connection field
 - (2) the status bar
 - (3) the status field
 - (4) the action area(s)
- Interface selection
 - **Connect** Establish connection
 - **Start / Stop** Start/stop programming
 - **Erase** ✓ = Delete old programme
 - **Program** ✓ = Install programme
 - **Verify** ✓ = Compare programme with programme on computer
 - **Info** Query the version ID of the Download Manager
 - **Exit** Exit the programme

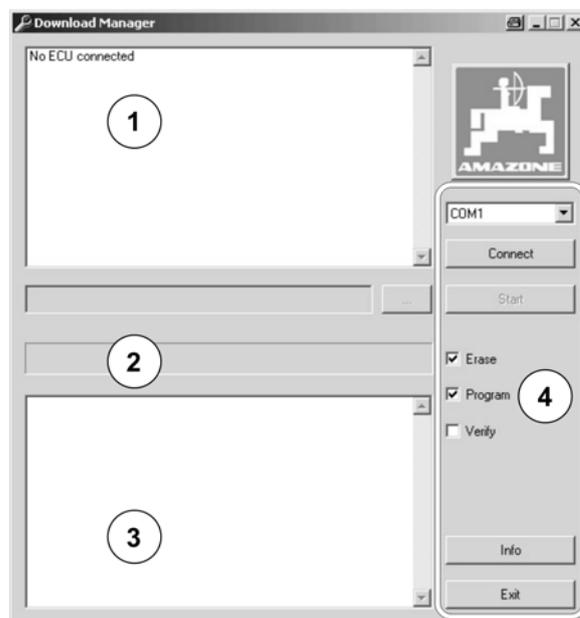


Fig. 2

1.4 Validity

These operating instructions are valid for version 3.21 and higher of the Download Manager.

2 Providing software

The following files are required to programme machine computers or terminals:

- Download Manager for executing the programming.
- Programme software, to be installed on the computer.

The software is provided on the **AMAZONE** info portal.

The screenshot shows the AMAZONE Info-Portal interface. The main content area displays a list of software updates for AMATRON+ products. The table below represents the data shown in the screenshot:

Name	Größe	Datum
Software-Update alte Hardware 2.18 DRILLE BASIS	4 MB	26.03.2010
Software Update 7.10.01 Spritze Basis	5 MB	26.03.2010
Software-Update alte Hardware 2.18 DRILLE HYDRAULIK	275 kB	26.03.2010
Software Update neue Hardware (mit Kunststoffwinkeln) 6.01.01 Drille Basis	4 MB	26.03.2010
Software Update neue Hardware (mit Kunststoffwinkeln) 6.01.02 Drille Hydraulik	385 kB	26.03.2010
Interne Serviceinformation Nr.24 neue Stellantriebe und Softwareupdate Amados+ mit ASD-Schnittstelle und Amatron+ 11.03.2010	33 kB	23.03.2010
Service Info NL255 Kabelbaum ZA-M Profis mit AMADOS+	343 kB	22.03.2010
Service Info Amatron+ Software unterschiedliche Softwareformate 17.03.2010	641 kB	18.03.2010
Software-Update STREUER BASIS Version 2.33.01.	3 MB	08.03.2010
Software-Update EDX MHX 5.20	4 MB	16.02.2010
Interne Serviceinfo Nr.15 Fehlermeldung bei Aktivierung der Abstreiferfernverstellung	16 kB	15.02.2010
Downloadmanager 3.21 zum Aufspielen der Software auf die Maschinenrechner	55 kB	08.02.2010

Fig. 3



The software for the machine computer is provided as a packet in .zip format. After unzipping, use the file with the country code for your country.

Example of software names:

Sprayer **v_7_10** **01** **de_en_fr** **.m11**
 (1) (2) (3) (4) (5)

- (1) Machine type/terminal
- (2) Software version
- (3) 01 Basic computer/02 Hydraulic computer
- (4) Country code for basic computer
- (5) File suffix



Country codes used:

de - German	pl - Polish
fr - French	hu - Hungarian
en - English	cs - Czech
nl - Dutch	sl - Slovenian
da - Danish	lt - Lithuanian
fi - Finnish	lv - Latvian
no - Norwegian	et - Estonian
sv - Swedish	ro - Romanian
it - Italian	bg - Bulgarian
es - Spanish	hr - Croatian
pt - Portuguese	sr - Serbian
el - Greek	sk - Slovakian
ru - Russian	

3 Programming

This chapter deals with how to programme an on board computer via the Download Manager. The machine computer is programmed in the following steps (here, using the example of a machine computer for the sprayer). You can programme all computers in the **AMATRON⁺** system consecutively. To do this, you must always repeat the following steps.

3.1 Starting the Download Manager and establishing a connection to the system

1. Save the software to be installed on the machine computer or terminal on the PC.
 2. Save the Download Manager on the PC.
 3. Start the Download Manager by double-clicking on it.
- The interface (Fig. 4) appears on the PC.
4. To establish a connection to the **AMATRON⁺** system, select the correct serial interface (Fig. 4/1: here COM1).

 If you do not know the interface number, see chapter 4.2.

5. Set the **AMATRON⁺** system to "Update" mode.
To do this (with the machine connected),
press the **Shift** and  buttons at the same time.

→ **AMATRON⁺** terminal displays:
"Ready for programming via Download Manager!"

 If this is not the case, please check the current software version as described in chapter 4.5 and compare this with the minimum requirements (chapter 1.3).

6. Establish a connection to the **AMATRON⁺** system.
To do this, click on "Connect" (Fig. 5/2) and wait until the status bar has reached the end.
- All computers (Fig. 5/1) that were found in the **AMATRON⁺** system are now listed in the connection field.

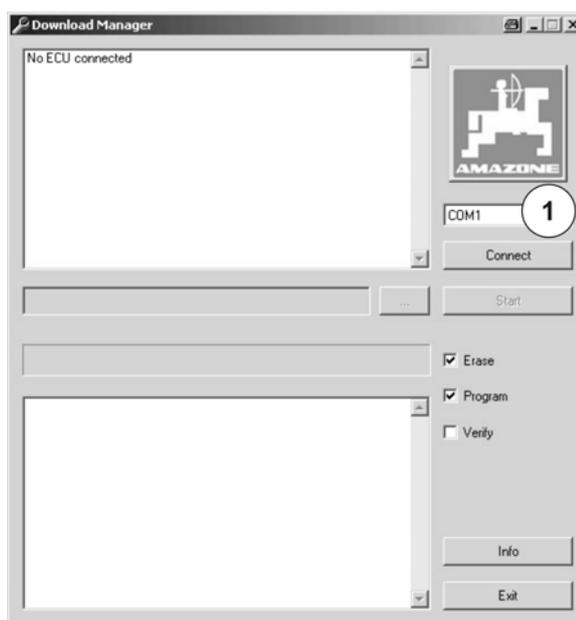


Fig. 4

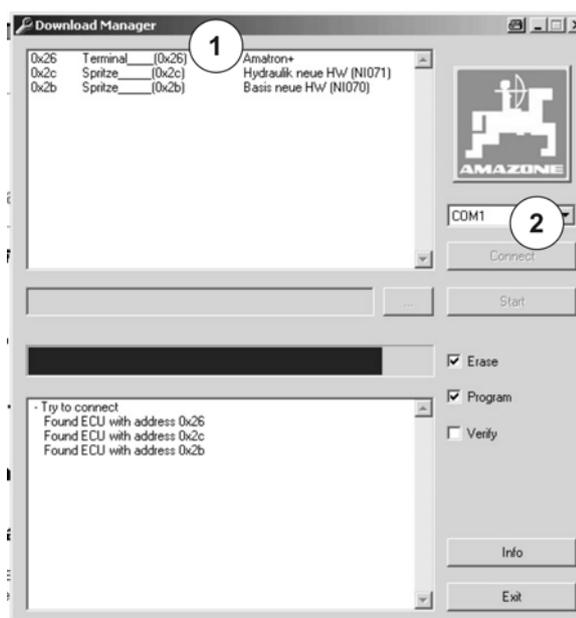


Fig. 5

3.2 Selecting the computer to be programmed and its software



Machines with a basic computer and hydraulic computer must have the same software status on both machine computers. That is, you must always programme both machine computers during an update.

1. To programme a machine computer or terminal, you must first select the appropriate software for it. To do this, select the computer to be programmed (Fig. 6/1).
2. Double-click on the selection with the mouse.

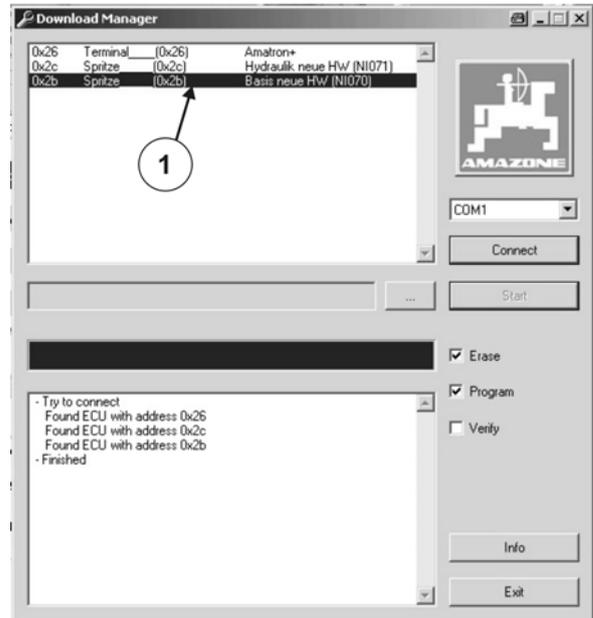


Fig. 6

→ The file selection window opens (Fig. 7).

3. In the file selection window, select the appropriate software for the computer.

You can choose between 2 file types.

- **Computer label (Fig. 7/2):**
If you select the computer label file type (Fig. 7: E.g. "Sprayer, basic new") only files that can be used for this type of computer are displayed. It is therefore not possible to interchange the software.
 - **Service (Fig. 7/3):**
If you select the "Service" file type, it is possible to install any software of the "basic type" on the machine computer (i.e. hydraulic software could be installed on a basic computer. This selection should be avoided and only used if you are prompted to do so by customer service.
4. After selecting the software, confirm your selection by clicking on "Open" (Fig. 7/1).

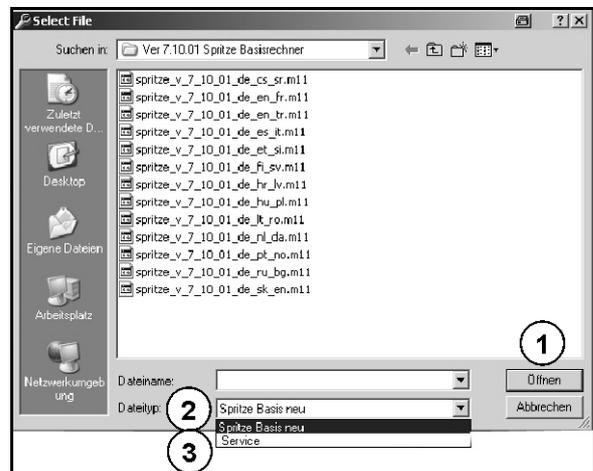


Fig. 7

3.3 Programming the computer

Fig. 8: Starting programming

1. After selecting the software, start the computer update by clicking on "Start" (Fig. 8/1).
- After starting, the status bar shows the current progress of programming. Programming consists of
- o Deleting the old programme (Fig. 9)
 - o Installing the new programme (Fig. 10)

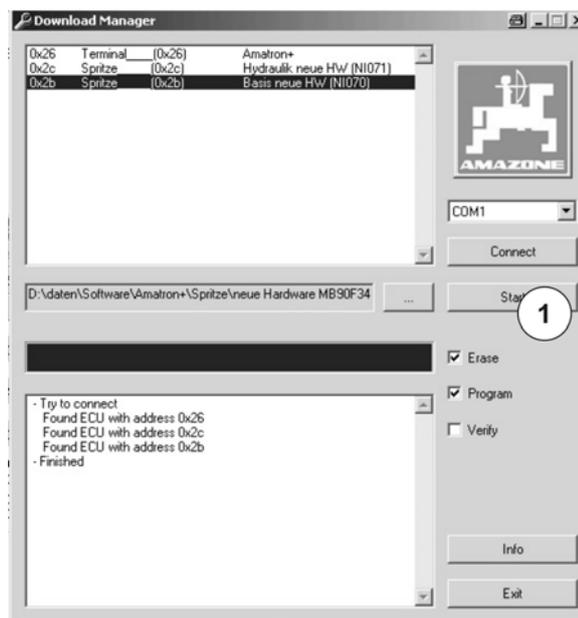


Fig. 8

Fig. 9: Deleting the old programme

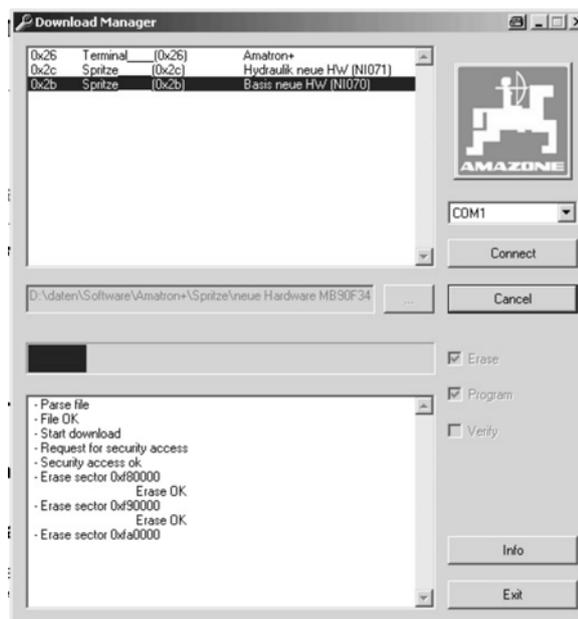


Fig. 9

Fig. 10: Installing the new programme

When the update has finished, this is indicated in the status field by the message "Programme finished" and "Download finished". The required time for programming is also displayed here.

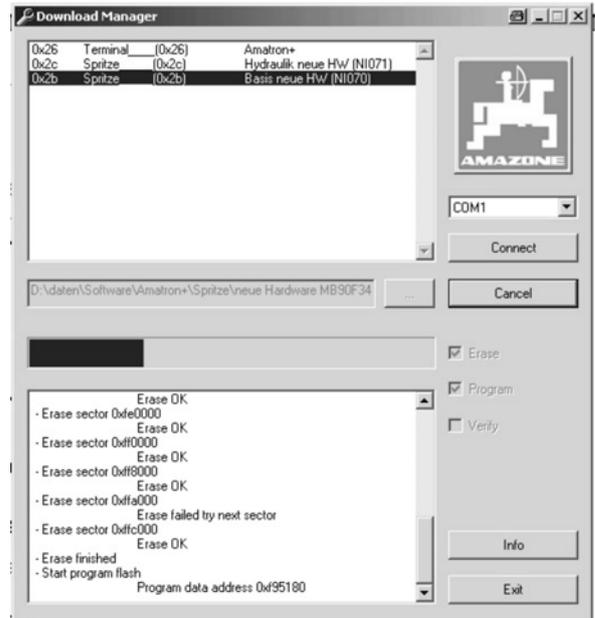


Fig. 10

4 Troubleshooting

This chapter deals with fault analysis and troubleshooting. If an error occurs, which cannot be found and/or eliminated based on the following chapter, please contact your customer service representative.

4.1 No connection

Failure to establish a connection can be due to the following reasons:

- Was the on-board computer not set to update mode?
 - Set update mode (see chapter 3.1)
- Is the cable connection between the on-board computer and PC correct?
 - Check the interface used on the **AMATRON⁺**. The cable must be connected to the serial interface (below the  button).
 - Check the type of cable. If using a PC, it must be connected with a null-modem cable.
 - If used, has the adapter (USB to RS232) been connected and installed correctly?
- Is the correct interface set on the PC?
 - Check the interface settings. If incorrect, a connection cannot be established. For how to find out the number of your interface, see chapter 4.2.

4.2 Missing number of the serial interface

The number of the serial interface is set by the operating system (e.g. Windows XP) or the hardware of the PC.

If a PC has one or two internal RS232 interfaces, these will be at numbers COM1 and COM2.

If a PC has no serial interface, it must be "created" using a USB to RS232 adapter. In this case, the operating system defines the port number. You can search for the number in the control panel for the operating system. To do this, you must have administrative user rights. For how and where to find the control panel or the number of the serial interface, see the documentation for your operating system or current forums on the Internet.

4.3 The PC always exits the Download Manager with an error message from Windows

At present, problems can occur when installing software with multi-core processor systems. If this problem has occurred, try an update process again. If this also fails, restart your PC.

4.4 Error message Error: Connection lost

This message appears in the status field if the connection to the **AMATRON⁺** system has ended prematurely (e.g. through disconnection of the cable). Start the update process again.

If the message "PC blank" appears when you connect to the system, this concerns the PC you have just programmed. It is marked as "blank" because its memory may already have been deleted.

4.5 Finding out the software version on **AMATRON⁺**

4.5.1 Terminal

The software version of the terminal/BIN version (Fig. 11/1) is displayed after disconnecting the machine computer and switching on the terminal.

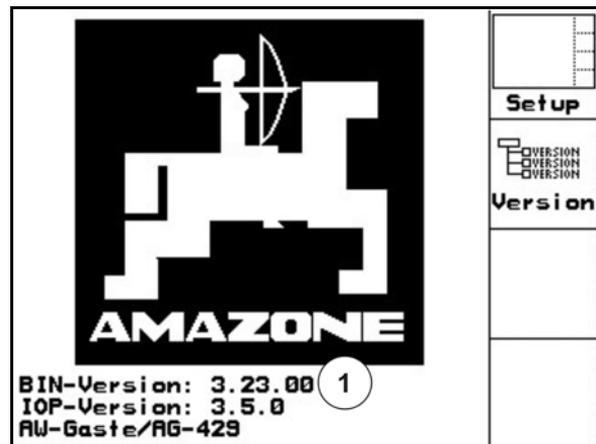


Fig. 11

4.5.2 Machine computer

The software version of the machine computer(s) is displayed in the setup menu.

In the main menu:

Click on  and confirm with .

→ Display of the MHX version (Fig. 12/1).

→ Display of other software versions.

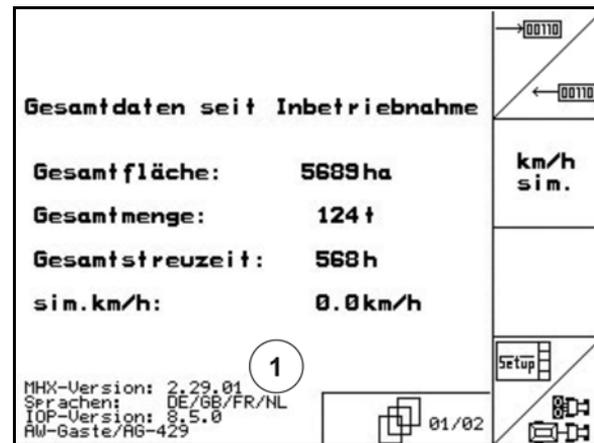


Fig. 12





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