

EndoStepper® Download Tool

**Download Program
for Software Update**

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1 General

The EndoStepper drill driver software is periodically adapted to actual requirements. For example, new instrument types are integrated.

In this manual you'll find instructions how to perform an EndoStepper software update with your PC.

The update package contains: floppy disk, connecting cable, information leaflet with clearing code* and description of the program extensions (e.g. new instrument types or new operating functions).

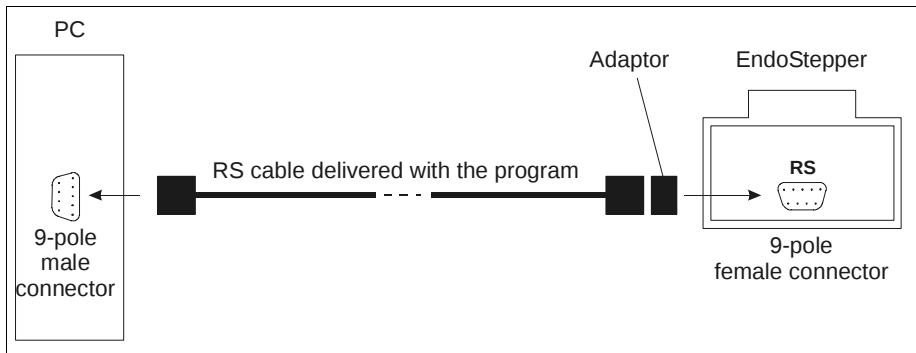
* For EndoStepper programs with costfree update option, no clearing code is needed.

2 System Requirements

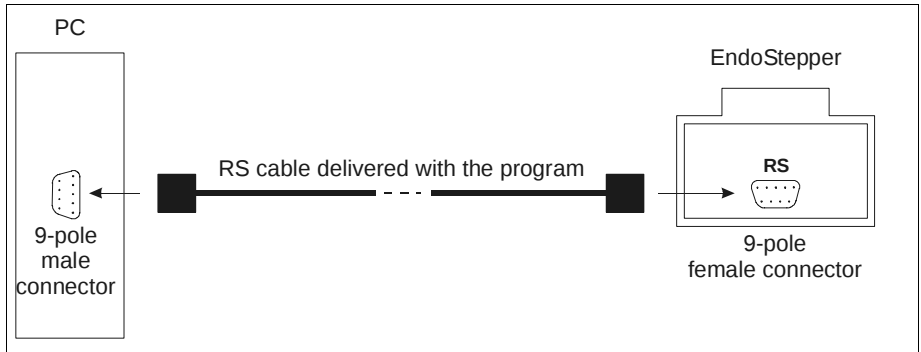
- PC with 3.5" floppy drive and mouse
- at least one free serial interface
- Windows NT, 98 or 2000 (Windows 95 with Internet Explorer 4.1 or higher)
In case of older Windows editions, an error message appears as soon as you start the download program.

3 Connection EndoStepper – PC

**Use the enclosed cable for connecting PC and EndoStepper.
Commercially available cables are not fitting !**



Cable type 1 (with plug-in adaptor)



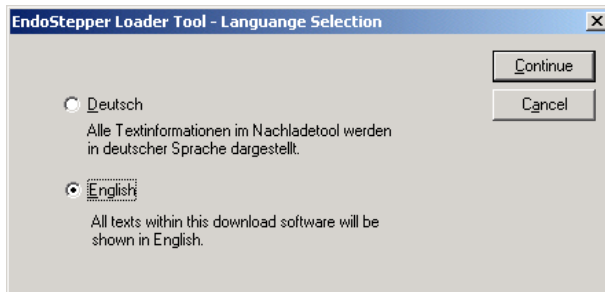
Cable type 2

1. Switch off the PC and the EndoStepper.
2. Connect one terminal of the cable to a free PC interface.
3. The other cable terminal (or plugged-in adapter) should be connected to the 9-pole SUB-D female connector (labeled **RS**) at the EndoStepper.

4 How to Do the Update

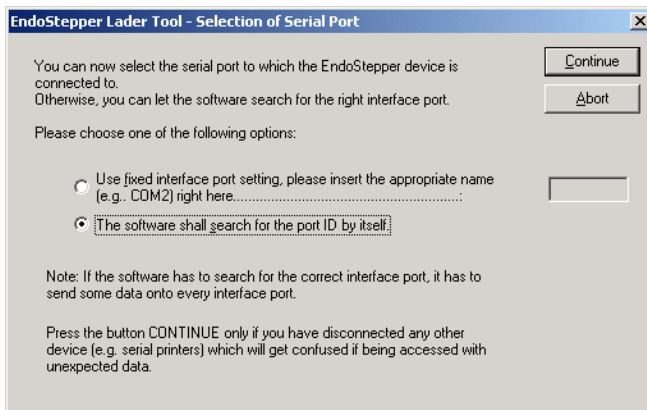
1. Switch on your PC and start Windows.
2. Switch on the EndoStepper.
3. Press the keys **F4** and **F8** (simultaneously) as soon as the start message (copyright etc.) appears in the EndoStepper display.
4. In the EndoStepper display the text PROGRAM MODE now appears.
5. Insert the update program floppy disk into the PC's floppy drive.
6. Start the update program (PC): Press the START button at the desktop window (move the mouse pointer to the button and press the left mouse key). Select RUN.
7. Press the button SEARCH.
8. Click on the arrow on the right of the field SEARCH IN. Now all available directories will be shown.
9. Select directory A (or the letter which means the floppy drive of your PC). Click to the file ELT.EXE.
10. Click to OPEN. Again the box RUN is displayed. When you click to OK the update program will be started.

11. After the start desktop the window below appears.



12. Select the language for the update program EndoStepper Download Tool.

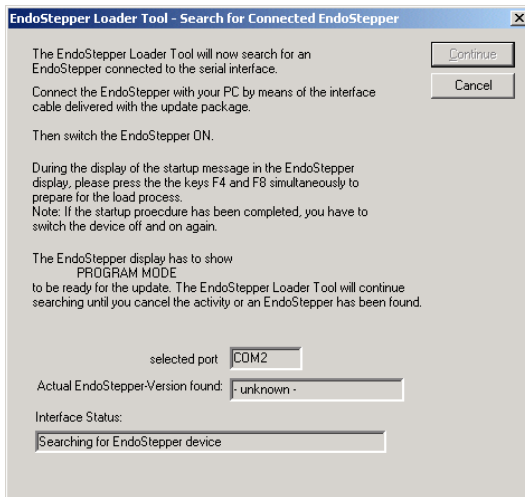
13. After you have clicked to CONTINUE, the next window appears.



14. When you click the button CONTINUE, the program searches for the interface the EndoStepper is connected to.

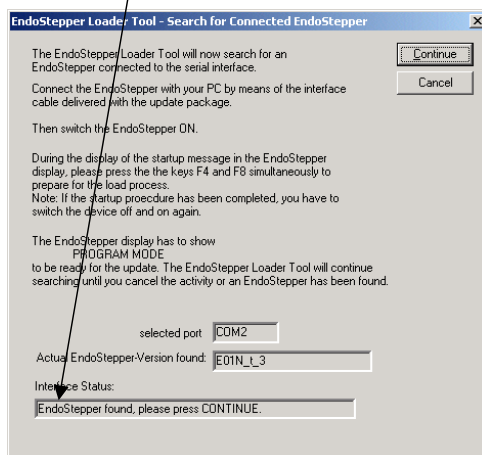
If the automatic search should not work you can enter an interface name. Click on the circle left of "Use interface ...". Move the mouse pointer into the input box and press the left mouse key. Now you can enter an interface name.
Then please click to CONTINUE.

15. The program begins to search an interface:



16. If you have not yet switched on the EndoStepper, you can now do it. Press the keys **F4** and **F8** (simultaneously) as soon as the start message (copyright etc.) appears in the EndoStepper display. Now the text PROGRAM MODE is displayed. The EndoStepper is ready for program transmission.

17. Now at the PC the box STATE OF TRANSMISSION should show the message: ENDOSTEPPER FOUND.



Please continue to read at item 20.

EndoStepper® Download Tool

18. If the program has not found a free interface, in the interface status line is displayed that the interface doesn't exist or is already used.
19. Check whether connected printers are switched off (or other devices).
20. Check the interface name. Look at the Windows settings for the names of available interfaces and again try to enter the name.
21. Click to CONTINUE.
22. When the program has found the interface, the message ENDOSTEPPER FOUND will be displayed in the box TRANSMISSION STATE at the PC. Now the data transfer begins. First the device data (serial number etc.) of the connected EndoStepper are inquired and shown at the PC.
23. When the device data transfer is finished the PC shows the next window.

Remark:

If the RS cable connection has been interrupted during data transfer, in the corresponding boxes in the window only question marks are displayed. Plug in the RS cable again and click the button READ NEW. Now the remaining data can be transmitted too.

The screenshot shows a window titled "EndoStepper - Display Device ID". It contains several input fields with the following values:

Field	Value
Version (Total)	E01N_t_3
Version (System)	S_1.4EL0
Version (Menu control)	M_E01_L
Version (Instrument data set)	P_E01_M
Version (BIOS Subsystem)	V01.01
Serial number (internal serial number)	00070101144
ID-Code (EPLD1)	30313330303130302020
ID-Code (EPLD2)	30313330303130302020

On the right side, there are three buttons: "Continue", "Abort", and "Read again".

At the bottom, there is a section labeled "Transmission State:" with a text box containing the message "Transfer completed."

24. Click the button CONTINUE.
25. Now a new window with the input boxes for version and clearing code will be displayed. Provided that your EndoStepper program package contains a free update, you can load an update without clearing code !

EndoStepper Loader Tool - Selection of new Version

Current Version:

New software version:

Serial Number:

Keycode:

Available Update Versions:

Description:

1. Enter the new version and the keycode delivered with the update software package. Then press the button SEARCH.

2. If you want to look for a free update, press the button Standard-Update.

The available update packages are then shown here. If you hit any of them with a mouse-click, a short description of the selected version is shown.

Select the version you want to install and then press Continue. Then you will reach the download window.

26. Software version number and clearing code are printed on the leaflet delivered with the program floppy disk. Move the mouse pointer to the box NEW SOFTWARE VERSION and click the left mouse key. Now you can enter the new software version designation.
27. Enter the clearing code into the box CLEARING CODE. Provided that you have a program package with free update, you don't have to enter a code in this box.
28. For a free update click to the button STANDARD UPDATE.
On the basis of the serial number the Download Software Tool automatically recognizes whether a free update is permissible for this EndoStepper.
29. In the box AVAILABLE UPDATE VERSIONS the version number will be displayed.
30. Click to the button SEARCH for display of further versions.

31. As soon as you click once to a version number, the new functions of this version will be displayed in the box DESCRIPTION.

The screenshot shows a Windows-style dialog box titled "EndoStepper Loader Tool - Selection of new Version". It contains several input fields and buttons. On the left, there are four labeled input fields: "Current Version:" with the text "U01N_t_2", "New software version:" with "E01n_t_3", "Serial Number:" with "00070101144", and "Keycode:" with "729B5EAF1A1A". To the right of these fields are two buttons: "Search" and "Standard-Update". Below these is a section titled "Available Update Versions:" which contains a list box. The first item in the list, "E01n t_3 ESU", is highlighted with a blue background. To the right of the list box is a text area containing instructions: "The available update packages are then shown here. If you hit any of them with a mouse-click, a short description of the selected version is shown." Below the list box is a "Description:" label followed by a large empty text box. To the right of this text box is another instruction: "Select the version you want to install and then press Continue. Then you will reach the download window." At the bottom right of the dialog are two buttons: "Continue" and "Abort". A black arrow points from the text in step 31 to the highlighted version in the list box.

EndoStepper Loader Tool - Selection of new Version

Current Version: U01N_t_2

New software version: E01n_t_3

Serial Number: 00070101144

Keycode: 729B5EAF1A1A

Search Standard-Update

Available Update Versions:

E01n t_3 ESU

The available update packages are then shown here. If you hit any of them with a mouse-click, a short description of the selected version is shown.

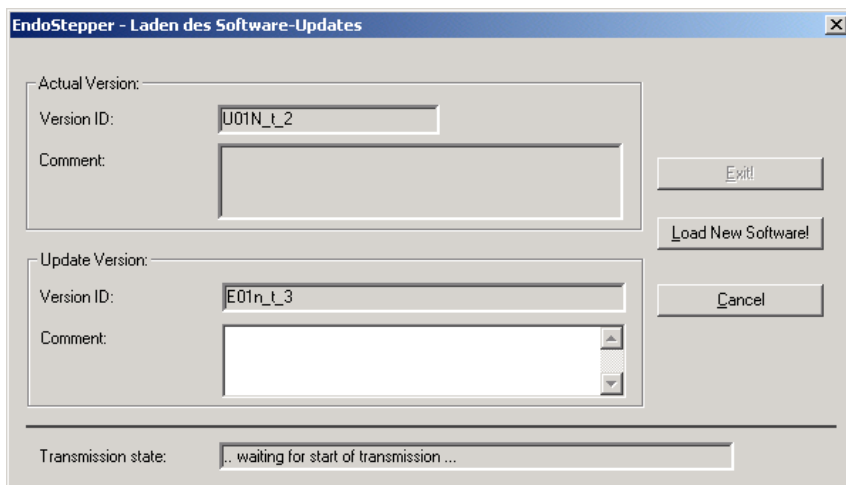
Description:

Select the version you want to install and then press Continue. Then you will reach the download window.

Continue Abort

32. Click to CONTINUE when you have selected the required version (version number is displayed with blue background).

33. Next a window will be displayed which shows the selected version:

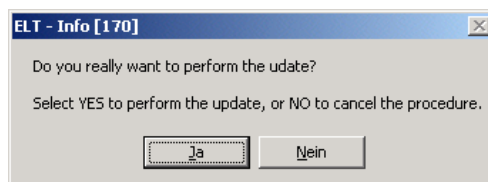


34. Provided that the correct version is shown now, click the button LOAD NEW SOFTWARE !

35. You can cancel the download if you do not want to load this version: Click the button CANCEL.

In this case the program restarts. You have to fill out the corresponding boxes another time.

36. Now you are asked to confirm that you really want to load the new program:



37. Click to YES for updating the program.

38. Now please wait a little until the new program has been downloaded.

In the following window you can watch the progress of data transfer:

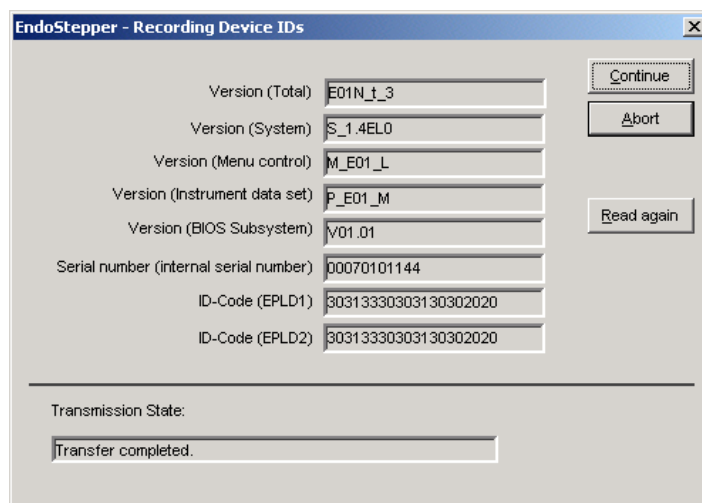
Remarks:

If the RS cable should be removed during data transfer an error message will be displayed on the PC. The data transfer will be continued when the cable is plugged in again.

If the power supply of the EndoStepper is interrupted during data transfer, the EndoStepper has to be switched off. Close the download program at the PC (click to the X at the upper left). Repeat the procedure "How to Do the Update" from item 1.

39. The download is finished when the in transmission state is displayed: Transfer completed.
40. Click on the button READY !
41. The drill data and EndoStepper functions are now updated
42. The next window for the download protocol only contains question marks for the present.
43. Click to the button READ AGAIN for getting the protocol or print it out.

44. An inquiry is made and the result is indicated:

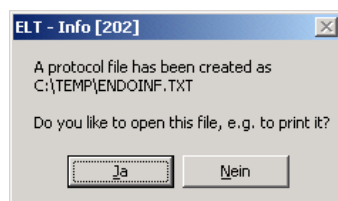


The dialog box titled "EndoStepper - Recording Device IDs" contains the following fields and buttons:

Version (Total)	E01N_t_3	Continue
Version (System)	S_1.4EL0	
Version (Menu control)	M_E01_L	Abort
Version (Instrument data set)	P_E01_M	
Version (BIOS Subsystem)	V01.01	Read again
Serial number (internal serial number)	00070101144	
ID-Code (EPLD1)	30313330303130302020	
ID-Code (EPLD2)	30313330303130302020	

Below the fields, there is a section for "Transmission State:" with a text box containing "Transfer completed."

45. Click to CONTINUE.



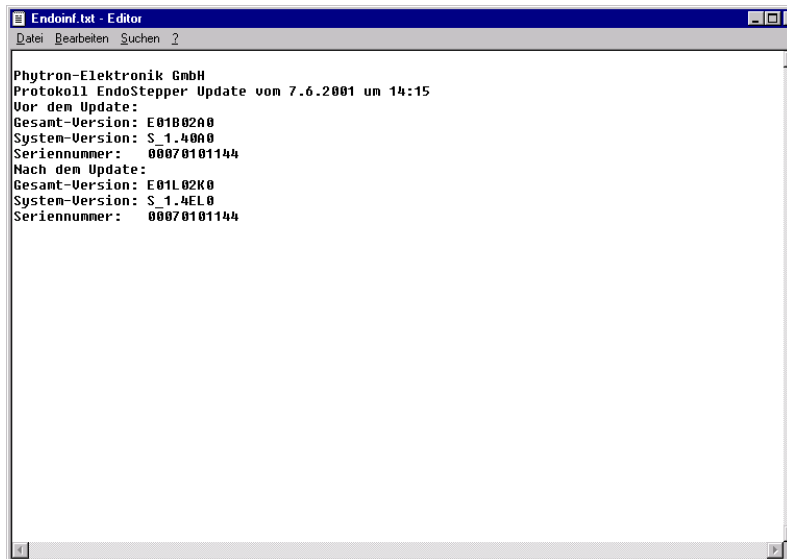
The dialog box titled "ELT - Info [202]" contains the following text and buttons:

A protocol file has been created as
C:\TEMP\ENDOINF.TXT

Do you like to open this file, e.g. to print it?

Buttons: Ja, Nein

46. Click to YES to open the protocol file.



```
Phytron-Elektronik GmbH
Protokoll EndoStepper Update vom 7.6.2001 um 14:15
Vor dem Update:
Gesamt-Version: E01B02A0
System-Version: S_1.4000
Seriennummer: 00070101144
Nach dem Update:
Gesamt-Version: E01L02K0
System-Version: S_1.4EL0
Seriennummer: 00070101144
```

47. Now a text editor is opened to show the protocol. You should print out this information or save it on your PC (click to FILE on the menu bar and select SAVE AS).

Explanations to the protocol please find in the next chapter.

48. Close the text editor (click to the X at the upper left).

49. Close the EndoStepper Download Tool (click to the X at the upper left).

50. Switch off the EndoStepper.

51. Switch off the PC.

52. Remove the RS connection cable.

During treatment with the EndoStepper no RS cable must be connected !

53. Now you can again switch on the EndoStepper and work as usual.

Read the attached leaflet with information about new functions before beginning with treatment !

5 EndoStepper Software Overview

After switching on the EndoStepper you can inquire the software version. Press **F2** and **F6** together while the start window is visible. Now a window with some system information is shown: Series no., BIOS version, LOADER version, total system version GesSys, system version System. The service technician needs these information to check your system.

The version information in the item **GesSys** is important for the customer, too:

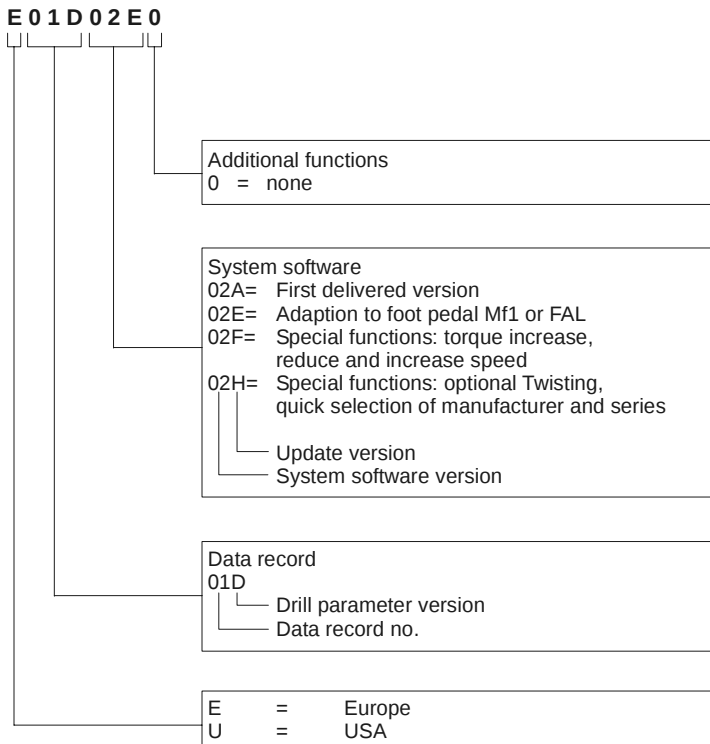
GesSys = total system (see fig. below)

The first character describes the sales region, for ex. Europe or USA.

The following number (01) is the number of the drill data record. The drill parameters were enlarged several times, the character (D) shows the actual drill parameter version.

The actual EndoStepper software edition is 02. There are several versions of this software which offer additional functions.

Further information about additional functions of your software update you'll find in the leaflet delivered with the clearing code.



Manufacturer:

Phytron-Elektronik GmbH • Industriestraße 12 • 82194 Gröbenzell, Germany
Tel. +49(0)8142/503-0 • Fax +49(0)8142/503-190 • E-Mail info@phytron.de • www.phytron.de

Marketing, Service and Support:

S.E.T. GmbH • Johann-G.-Gutenberg-Straße 20 • 82140 Olching, Germany
Tel. +49(0)8142/44456-0 • Fax +49(0)8142/4445630 • E-Mail info@set-dental.de