

KNORR-BREMSE

Service Terminal ST03A



Installation Guide

IMPORTANT NOTICE

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1 Installation Overview

The Knorr-Bremse Setup program for ST03A lets you perform standard and custom installations of the Knorr-Bremse Service Terminal ST03A.

This document provides you with:

- Information needed to perform a typical installation of ST03A. (Additional information about ST03A is available in the online help.)
- Software licensing description and procedures.

2 ST03A Installation

This chapter describes how to use the Knorr-Bremse Setup wizard to install ST03A.

ST03A is the basic Service Terminal software of the Knorr-Bremse Corporation for development, commissioning and maintenance of ESRA-type BCUs.

2.1 Installation Requirements

You have to ensure that your environment fulfills the requirements below before you start ST03A Installation.

You must have Windows administrator privileges to use the Knorr-Bremse Software Setup program on Windows 98/2000/XP.

Table 1 lists all recommended requirements of ST03A.

Item	Requirement
Operating System	ST03A is able to run on the following platforms: <ul style="list-style-type: none">• MS Windows 98 SE• MS Windows 2000 (no service pack required)• MS Windows XP (no service pack required)
Processor	A Pentium IV (@ 2.6 GHz) based PC-compatible computer system
Memory	1 GB
Disk Space	250MB (200MB after installation)
Other	1024 X 768 screen resolution with 16-bit color depth. Adobe Acrobat Reader is required for printing. (www.adobe.com)

Table 1. Recommended ST03A Requirements

Table 2 lists the minimal requirements of ST03A that should be fulfilled to run the software.

Item	Requirement
Operating System	ST03A will run on the following operating system platforms: <ul style="list-style-type: none">• MS Windows 98 SE• MS Windows 2000 (no service pack required)• MS Windows XP (no service pack required)
Processor	A Pentium II (@ 350 MHz) based PC-compatible computer system
Memory	256MB
Disk Space	250MB (200MB after installation)
Other	An SVGA-compatible display (256 or more colors recommended). Adobe Acrobat Reader is required for printing. (www.adobe.com)

Table 2. Minimum ST03A Requirements

If you are upgrading from an earlier version, it is recommended to remove previous versions of ST03A before the installation procedure.

2.2 Installing ST03A with the Knorr-Bremse Setup Procedure

2.2.1 Preparing to Install ST03A

The Knorr-Bremse Software Installation procedure uses `C:\Program Files\Knorr-Bremse` as the default installation path. You can specify another drive during the installation procedure. If your `C:\` drive lacks sufficient free disk space, you may either specify another drive or make space available on the default drive. Some files will be installed on your `C:\` drive anyway; the Software Setup wizard will report the amount of space required on all drives for your installation.

Caution

Interrupting an installation that is in progress may leave your system in an indeterminate state. If you try to close the Knorr-Bremse Software Setup window while the installation is in progress, you are asked to confirm that you want to exit from the incomplete installation.

2.2.2 Typical Installation

This section describes a typical installation of ST03A.

For additional information for the installation procedure, see chapter 3, Additional Installation Information, on page 9.

1. Insert the Knorr-Bremse Installation CD into your system's CD drive. The setup folder will be opened automatically. If autorun is disabled on your system, click **Start > Run**. Using the drive letter of your CD-ROM drive, enter `drive:\SETUP.EXE`.
2. The Software Setup wizard guides you through the software installation process. On each page, click **Next** to proceed to the next page.
3. The License Agreement page displays the Knorr-Bremse Software license agreement. You must accept the license agreement otherwise you cannot continue the installation procedure. If you do not accept the license agreement, the installation does not let you proceed further. If you exit from the installation by clicking the Finish button at this point, no changes will be made to your system.
4. You can change the installation path of the software before the installation procedure is started.
5. Click **Finish** to exit from the Knorr-Bremse Software Setup wizard.
6. Reboot your computer.

2.3 Removing ST03A

This section describes how to remove ST03A from your system.

2.3.1 Preparing the removal of ST03A

Make sure that no one is using ST03A or any associated files. You cannot remove files that are in use. If you try to remove ST03A while someone is using it, the uninstallation procedure will run, but files in use will not be removed. There is no automatic way of removing the remaining files.

You must have administrator privileges to remove ST03A from a Windows NT/2000/XP system.

2.3.2 Remove ST03A

There are two simple ways to remove an ST03A installation from your system. Both approaches have the same result.

1. You can remove an ST03A installation by selecting the **Programs > ST03A... > Uninstall ST03A** menu item from the **start** menu.
2. The second way to remove an ST03A installation is to follow the steps below.
 - Display the Control Panel by selecting the **Settings > Control Panel** menu item of the **start** menu.
 - Double click on the **Add/Remove Programs** item.
 - Select the **ST03A** version you want to remove in the appearing list and press the **Change/Remove** button.
 - Confirm your decision by answering **Yes** to the appearing question.
 - Follow the instructions of the Uninstaller.

3 Licensing

There are four different areas where ST03A is typically used. There are different licenses for each area to make the work more secure and comfortable with ST03A.

The following license types are available for ST03A users:

License name	Available services
Default	BCU Information Data Log Event History Display Event Memory Display I/O Channel Display Process Data Display Real Time Clock Request System Information
Operator	Default + I/O Channel Forcing Measurement Process Data Forcing Software Update
OEM	Operator + Software Installation
KB-Service Engineer	OEM + Background Picture Import Data Log Configurable Event History with All Events Event Memory with All Events HEX File Import HEX File Install Internal Error Memory Measurement Configurable
Platform Developer	KB-Service Engineer + Read/Write Memory Terminal Channel

Table 3. Licenses with the active services

ST03A is delivered with **Default** license. This means that after installation all services listed at the Default license can be used without further procedure. If higher privileges are needed a license request generated with ST03A has to be sent to Knorr-Bremse Service Terminal Hotline (esraterm@knorr-bremse.com).

The following steps describe the way in which you can generate a license request:

1. Start ST03A (**Start > Programs > ST03A... > ST03A**)
2. Choose the **Tools > Licensing > Request...** menu item to display the license request form.
3. Fill out the form. Fields marked red must be filled.
4. Save the license request into a file.
5. Write an e-mail to our Hotline address. Describe the exact license type that you would like to obtain and attach the saved license request file to your e-mail. (If you cannot send an e-mail you can send a fax as well.)

You will receive an answer to your license request within 3 business days. If you received the requested license you should do the followings:

1. Start ST03A (**Start > Programs > ST03A... > ST03A**)
2. Choose the **Tools > Licensing > Answer...** menu item to display the license installation dialog.
3. Copy-paste or enter the received 20 digit license key into the field at the top of the window and push the **Add** button.
4. Press **OK**. Unlike with previous versions of ST03A this will automatically enable the features received in the license without having to restart the program.

Important note

The sent license works only on the machine where the license request was generated.

3.1 Revoke license keys

In order to move your previously activated ST03A licenses to another computer you need to permanently remove your current license keys by using ST03A uninstaller. The uninstall wizard of ST03A provides an option (Revoke license) for removing license keys. During license keys removal ST03A generates the RemovedLicenseKeys.kbu file that has to be sent to the esratem@knorr-bremse.com e-mail address in order to prove the removal of the license keys.

Important note

The revoked license keys can never be used or reactivated on that computer where they were removed from.

4 Additional Installation Information

4.1 Troubleshooting Your Installation

If you have any problems running the Knorr-Bremse Software Setup program, try the following suggestions before you call Knorr-Bremse Hotline Support for help:

- Stop all applications before you start the installation.
- Turn off all virus protection software. These programs often run in the background and interfere with the installation and file decompression process.
- Turn off any user interface managers or desktop environments that run on top of Microsoft Windows.
- Change to a standard VGA video driver while Knorr-Bremse Setup is running, or disable video features such as virtual screens or screen switching.
- Change to a standard mouse driver, or disable special mouse features that perform tasks such as leaving pointer trails or changing pointer sizes.
- Check if your system meets the minimum system requirements listed in Table 2, Minimum ST03A Requirements, on page 3.

4.2 Unattended Software Installations

You can configure Knorr-Bremse Software Setup to perform automatic installations of ST03A without asking questions from the user. This type of installation is recommended when large number of users can access the installer through a network. The following sections provide a brief summary of the unattended installation features.

There are two steps of an unattended installation:

1. Prepare the installation procedure. (Has to be done once.)
2. Execute the installation procedure. (Usually done several times.)

4.2.1 Preparing an Unattended Software Installation

You can define some properties in a special configuration file and perform the unattended software installation with the parameters in the configuration file.

To prepare an unattended installation:

1. Create a file called `silent.txt`. The file should contain the settings for the installation path and the desktop icon setting. An example is provided in chapter 3.2.3.
2. Copy the file and the installation files into the same folder.

4.2.2 Performing an Unattended Software Installation

After you have prepared the unattended installation, run `NAL_Setup.exe`. You can do this by executing the following command:

```
<Installer Location>\NAL_Setup
```

Where `<Installer Location>` is the path to the folder where you have copied the installation files during preparation.

4.2.3 Sample `silent.txt` File

The following is an example configuration file for an unattended installation of ST03A. Note that the different parameters define the way the installation will be performed.

```
*****# bean property assignments  
  
-P productBean.installLocation="C:\Program Files\ST03A"  
  
-P DesktopComponent.active=False  
  
associate.prj=false  
  
associate.project=false  
  
StatisticalDataTransmissionAllowed=true  
  
*****
```

4.3 Installing the drivers of the communication devices

4.3.1 Softing CAN device driver installation

We recommend the use of Softing USB-to-CAN device for your work. It provides the fastest communication between ST03A and the ESRA system and seemed the most reliable communication device under our laboratory tests.

Detailed installation instructions and different Softing device drivers are located in the Softing folder of the ST03A installation CD. Under the Softing folder there is a separate subfolder for each device driver that contains a device specific `Readme.txt` document with device specific instructions.

Do not forget to enable the automatic detection of the installed device within ST03A through the **Tools > Options... > Devices** item.

4.3.2 Vector CANcardX driver installation

Detailed installation instructions for the Vector CANcardX's driver can be found under the Vector folder of the installation CD (see the document `cancardx_e.pdf`).

4.3.3 Parallel port CANdy adapter installation

Detailed installation instructions of IXXAT's CANdy adapter can be found in the following documents under the IXXAT folder of the installation CD:

1. `vciv2_installation-manual-e.pdf` (English)
2. `vciv2_installation-handbuch-d.pdf` (German)
3. `CANdy_Troubleshooting.pdf` (English)

The following simplified installation process for the CANdy adapter works in most of the cases:

1. Connect your CANdy adapter to your PC's parallel port.
2. Plug in an external power supply into your CANdy adapter (5V DC).
3. Turn on your computer.
4. The preferred LPT port BIOS setting is SPP. (Use Normal or AT if SPP was not available in BIOS settings.)
5. Log in with administrator rights in case of Windows NT/2000/XP platforms.
6. (Remove old VCI 1.17/VCI 2.14 driver and/or Add-on versions of the CANdy adapter before continuing. See `CANdy_Troubleshooting.pdf` chapter 2.1 for details.)

7. Start the installer of the driver (`\Ixxat\vc1216+sp2.exe`).
8. Open the Control Panel by selecting the **Start > Settings > Control Panel** menu item.
9. Double click on the **IXXAT Interfaces** item.

The following two steps (a and b) are needed for Windows 98/2000/XP but they are not needed for Windows NT.

- a. Click on the **Install** button.
 - b. Confirm the installation of the IXXAT CANdy driver by clicking on the **OK** button.
10. Set the IXXAT CANdy device to the default by selecting it in the device tree and clicking on the **Default HW** button.
 11. Close the IXXAT Interfaces panel by clicking on its **OK** button.
 12. Add IXXAT to the list of automatically detected devices of ST03A.
 - a. After start of ST03A, choose **Tools > Options** menu item.
 - b. Chose the **Devices** node on the left side.
 - c. Check in the **IXXAT** node on the bottom of right side, and press **OK** button.

You can check if your installation process was successful without ST03A on the following way:

- Choose the **Start > Programs > IXXAT > VCI 2.16 > Minimon32** menu item.
- Press the small arrow (>) beside the board selector box in the appearing dialog.
- Select **CANdy** and press the **OK** button.
- Press the **OK** button on the Board Type dialog as well.

If the initialization sequence completes without any error then the installation was successful and the CANdy adapter is ready to use.

4.3.4 IXXAT USB to CAN adapter device driver installation

ST03A already supports the USB to CAN adapter of IXXAT. You need to follow the major steps described below to install the IXXAT USB to CAN adapter device driver properly:

1. Install the VCI 2.16 device driver (`\Ixxat\vc1216+sp2.exe`)

2. Connect the USB-to-CAN compact adapter to the USB port and follow the appearing instructions
3. Start the “**IXXAT Interfaces**” dialog from the Control Panel.
4. Select the “**USB-to-CAN compact**” node in the appearing tree.
5. Click the “**Default HW**” button then the “**OK**” button.
6. Start ST03A.
7. Select the “**Tools > Options...**” menu item.
8. Choose the “**Devices**” node on the left side of the window.
9. Check in the “**IXXAT**” node in the tree on right side of the window. (This enables the automatic detection of the default IXXAT communication device.)
10. Click “**OK**” on the Options dialog.

If a working ESRA system and ST03A is connected with the IXXAT USB-to-CAN adapter then ST03A will automatically detect the connection. ST03A indicates a working communication channel by switching the LED in the bottom right corner of the main window to green.

4.3.5 Serial port installation

No special drivers are needed to be able to use the RS232 port of your PC to communicate with an ESRA system. This kind of communication device is relatively slow compared to the above-mentioned direct CAN devices but it's available almost for everybody.

In case of using USB to Serial device the latest prolific driver should be installed from **\\Profilic\PL-2303 Driver Installer.exe**.

4.3.6 SU06A

The ST03A supports a new SU06A device to measure different signals. To install correctly this device please follow the steps below:

1. Connect the SU06A to USB port
2. Select the **\\SU06A\su06.inf** file in the “Found new hardware” wizard dialog

4.4 Precondition of the language support

If you want to use ST03A with the supported languages (English, German, Spanish, France), then your operating system has to be configured to support the wanted language.

4.5 Precondition of the Chinese support

If you wanted to use ST03A in Chinese then your operating system has to be configured to support Chinese language.

In case of Windows 2000 Chinese support can be easily configured through the Control Panel:

- Select the **Start > Settings > Control Panel** menu item.
- Double click on the **Regional Options** item
- Check in the **simplified Chinese** checkbox in the appearing dialog
- Press the **Apply** button.

5 Technical support

Knorr-Bremse provides technical supports for all users of this product. If you need support contact us using one of the methods below. Technical support is provided in English.

Knorr-Bremse Service Terminal Hotline

E-mail address: esraterm@knorr-bremse.com

Phone number: + 36 (1) 382 9970

Fax number: + 36 (1) 382 9960

5.1 Further information

Knorr-Bremse provides a quick overview of the new features of this product and troubleshooting information <http://st03a.knorr-bremse.com/>.