Instructions for BEHRINGER BCF2000/BCR2000
& Emagic Logic Platinum 5.5.1 (PC)

Please consider:

The following instructions are intended only for advanced users who possess extensive knowledge of the Emagic Logic software!

Please note that an optimized controller implementation will follow as soon as it becomes available.

Preparations:

- The described setup is **designed to be used with 1x BCF2000 and 1x BCR2000** unit to control Emagic Logic and several Plug-ins
- The following files are included in the ZIP file:
  - **4 separate BCF settings** (.syx) **for controlling the Logic Mixer** (each preset controls 8 channels: 1-8 / 9-16 / 17-24 / 25-32)
  - **1 BCR-setting** (.syx) for **controlling the Logic Compressor and Fat EQ**
  - **1 BCR-setting** (.syx) for **controlling the EXS24 MkII** sampler
  - **2 Logic-files** for implementing the BEHRINGER controllers to Logic: 'Import.LSO' and 'BCF-BCR Tutorial.LSO'
  - this **help instruction text file**

Created for the following software version:

Manufacturer	Emagic
Software Name	Logic Platinum (PC)
Software Version	5.5.1
Created on Operating System	Windows XP

Before you start with the installation, here is a description of all B-CONTROL presets used:

PRESET NAME:

BCF Logic Mix 1-8 / 9-16 / 17-24 / 25-32.syx

-> 4 separate presets for BCF2000 (each with 8 channels)

Short Description:

This mixer setting controls the following elements of Emagic's Logic Mixer:

- Volume   -> Faders (Audio Objects)
- Pan   -> Encoder Group 1
- Send 1   -> Encoder Group 2
- Send 2   -> Encoder Group 3
- Send 3   -> Encoder Group 4
- Mute   -> Upper Button Line
- Solo   -> Lower Button Line
- Transport Section   -> Right Front Section Buttons (b49 to b52)
    - ➔ Play
    - ➔ Stop
    - ➔ Rewind
    - ➔ Fast Forward

Assignment of the **BCF Logic Mix Presets:**

PRESET NAME:

BCR LOGIC comp-eq.syx

Logic Compressor (Slot 1) and Fat EQ (Slot 2) -> 1 preset for BCR2000

Short Description:

This mixer setting controls the following elements of Emagic's Logic Slots:

- Compressor Control   -> Encoder Group 1
- *No function*   -> *Encoder Group 2-4*
- EQ Filter Select   -> Upper Button Line
- EQ Band On/Off   -> Lower Button Line
- EQ Band Freq   -> Rear Encoder Line (E33 to E40)
- EQ Band Gain   -> Middle Encoder Line B (E41 to E48)
- EQ Band Q   -> Front Encoder Line (E49 to E56)
- System Functions   -> Right Front Section Buttons (b49 to b52)
  - ➔ Control Target Mixer/Off
  - ➔ Feedback On/Off/Learn
  - ➔ Cha: Slot# Select
  - ➔ Slot Select On/Off
- Additional Functions
  - ➔ Arrange Track Select up/down
  - ➔ EQ Master Gain
  - ➔ System Control Target

Assignment of the **BCR Logic Comp/EQ Preset:**

PRESET NAME:

BCR LOGIC EXS24.syx

Logic EXS24 MkII -> 1 preset for BCR2000

Short Description:

This setting controls the following elements of Emagic's Logic Sampler:

- Filter, Level & More   -> Encoder Group 1

- Transpose, Pitch & More   -> Encoder Group 2

- Modulation Matrix 1.1 to 4.2   -> Encoder Group 3

- Modulation Matrix 5.1 to 7.2   -> Encoder Group 4

- LFO, Instrument-Select & More -> Upper & Lower Button Line

- LFO 1-3 Rate & More   -> Rear Encoder Line (E33 to E40)

- ENV 1 ADSR   -> Middle Encoder Line B (E41 to E48)

- ENV 2 ADSR   -> Front Encoder Line (E49 to E56)

- System Functions   -> Right Front Section Buttons (b49 to b52)
  - ➔ Control Target Mixer/Off
  - ➔ Feedback On/Off/Learn
  - ➔ Cha: Slot# Select
  - ➔ Slot Select On/Off
- Plus some additional functions

Assignment of the BCR Logic EXS Preset:

For further information please visit **www.behringer.com**   BEHRINGER Spezielle Studiotechnik GmbH

Installation instruction:

If you are experienced in Logic, you can follow the detailed description on how to implement all presets on the B-CONTROL BCF2000 and the BCR2000:

1. **First, please download and dump the latest BCF and BCR drivers and firmware** from our homepage www.behringer.com. These files are not necessary for operation but are helpful if you want to get your hardware up-to-date. Our drivers are multi-client enabled; for example, you can *simultaneously* access the MIDI ports on your B-CONTROL from different types of software, and your specific hardware will be listed in the software.

2. **Then, open and extract the downloaded ZIP file for Emagic Logic.**
    The following files are included:
    - this INSTRUCTION text document (pdf)
    - all B-CONTROL PRESET files (syx) for the B-Control hardware
    - ADAPTATION FILES (.lso) for Emagic Logic

3. **How to get the B-CONTROL PRESETS from your computer into your hardware:**
    - Connect the B-CONTROLs to your computer via USB or MIDI port (Computer MIDI OUT to B-Control MIDI IN)
    - Select the correct USB or stand-alone operating mode on the hardware (please refer to the manual for details)
    - **We recommend to connect the hardware as follows:**
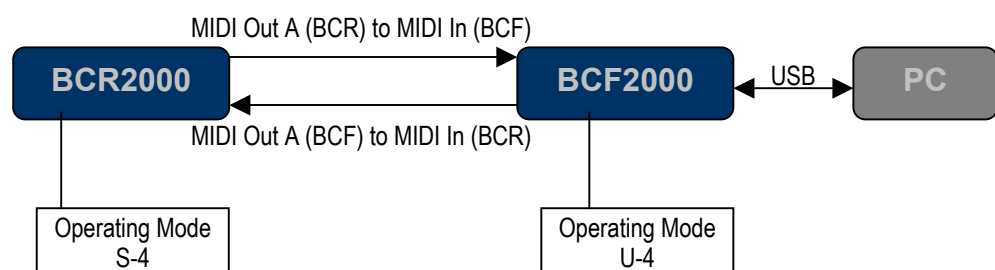
    - Open & dump the B-CONTROL preset files **(all with the suffix '.syx')** step by step with a MIDI dump program like "MIDI-OX" or "Send SX" from your computer to the B-CONTROL hardware units

or use the B-CONTROL EDIT software editor, which is available free of charge at our homepage www.behringer.com

- For dumping to the **BC<u>F</u>2000:**
    - Select **'BCF2000 [01] OUT'** *(without* the suffix '…A'!) as 'MIDI OUT port' on your dump program*****
    - Select **'Device ID 1'** on the BCF2000 hardware (please refer to the manual for details)
    - Now you can dump the BCF-files

- For dumping to the **BC<u>R</u>2000:**
    - Select **'BCF2000 [01] OUT'** *(without* the suffix '…A'!) as 'MIDI OUT port' on your dump program*****
    - Select **'Device ID <u>2</u>'** on the BC<u>R</u>2000 hardware (please refer to the manual for details)
    - Now you can dump the BCR-files

- Don't forget to STORE the dumped files on the B-CONTROL hardware units step by step; otherwise, right after dumping they are only buffered in the singular temporary memory.
    Storing the presets on the BCF/BCR hardware (after dumping):
    - Push the STORE button on the hardware
    - Select the desired destination preset number
    - Push the STORE button again
    - The preset is now saved on your hardware
    - Afterwards, you can dump the next preset

*If you are using the standard Windows XP MIDI driver, 'USB Audio Device' will be shown; if you are using the BEHRINGER Windows XP driver, 'BCF2000 [01] OUT' will be shown.

4. **How to install the ADAPTATION FILE and the B-CONTROLs on your LOGIC software:**

- Start Logic and load up a song (e.g. the auto load song; better yet, the **demo song 'BCF-BCR Tutorial.LSO')** where you want to create the B-CONTROL setup

- In the environment, select the 'Click & Port' layer
  and import the 'CONTROL' layer from the file 'Import.LSO'
  (already implemented in the tutorial song!)

- *Hint:*
  Please check the wiring by using the demo song 'BCF-BCR Tutorial.LSO'

Before we start the installation and wiring…
        - all layer names are in brackets
        - all connections are done by drag & drop


Let's start the installation…

- Create a screen set with the layers 'KLICK & PORT' and 'CONTROL'
  (-> screen set '1' in the tutorial song, selectable with the '1' button on the computer keyboard)

- Connect the output **To Seq Input** (CONTROL) with the **Sequencer Input** (Click & Port) -> **[1]**
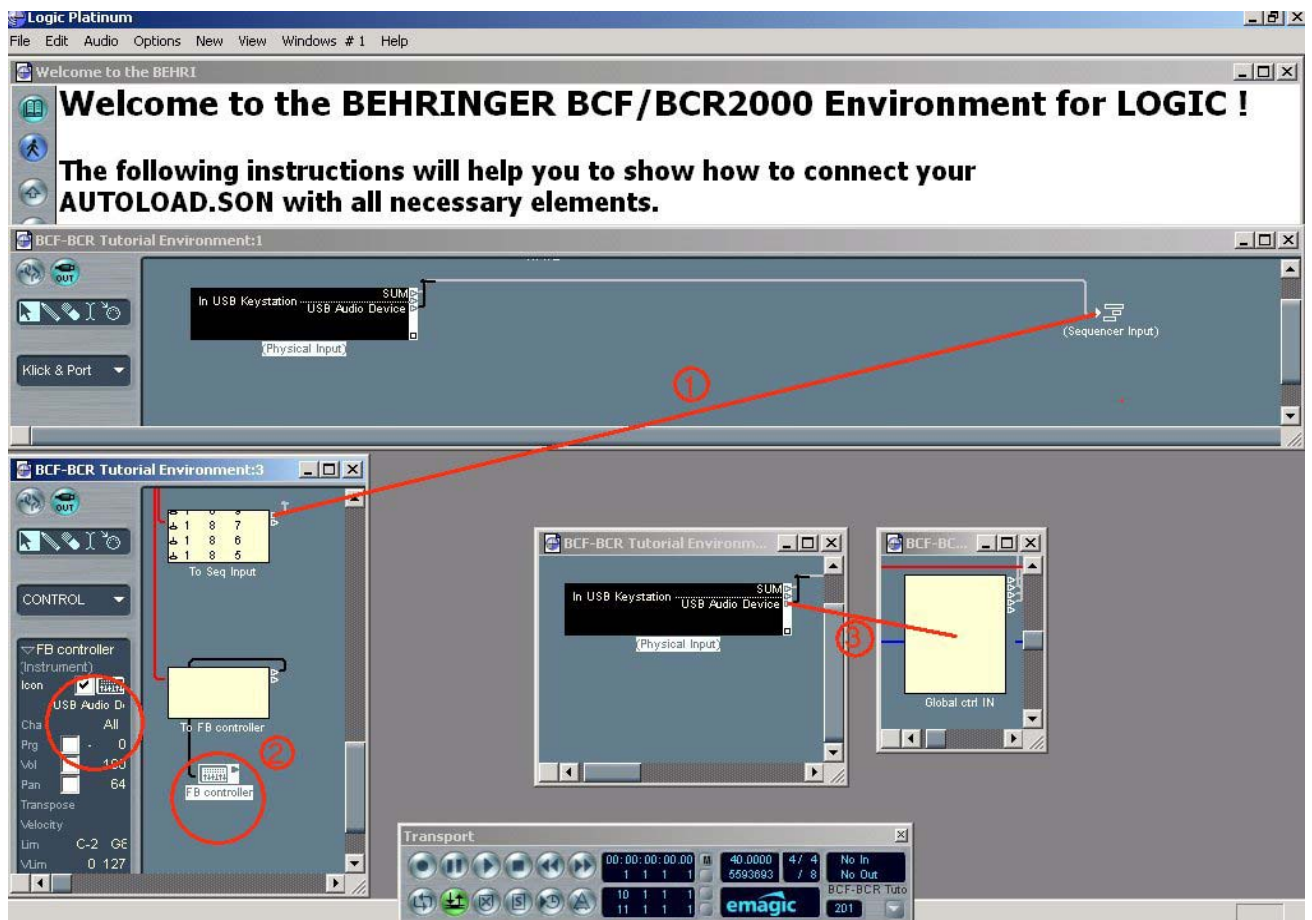
- Check the 'FB controller' section -> **[2]**:
  - ○ **'USB Audio Device'** or **'BCF2000 [01] OUT'** should be selected in the left field (the indication is depending on the driver used)
  - ○ **Cha** should be set to **All**

- Connect the output **'USB Audio Device'** or **'BCF2000 [01] OUT'** (Click & Port) with the monitor **Global ctrl IN** (CONTROL) -> **[3]**
- Now move to screen set '2' on the tutorial song (press '2' on your computer keyboard if the tutorial song has been loaded)

- Connect the **CTR #** monitor outputs (CONTROL layer) to the **audio** object inputs (AUDIO layer) you would like to control (max. 32) -> **[4]**

- Move to screen set '3' in the tutorial song
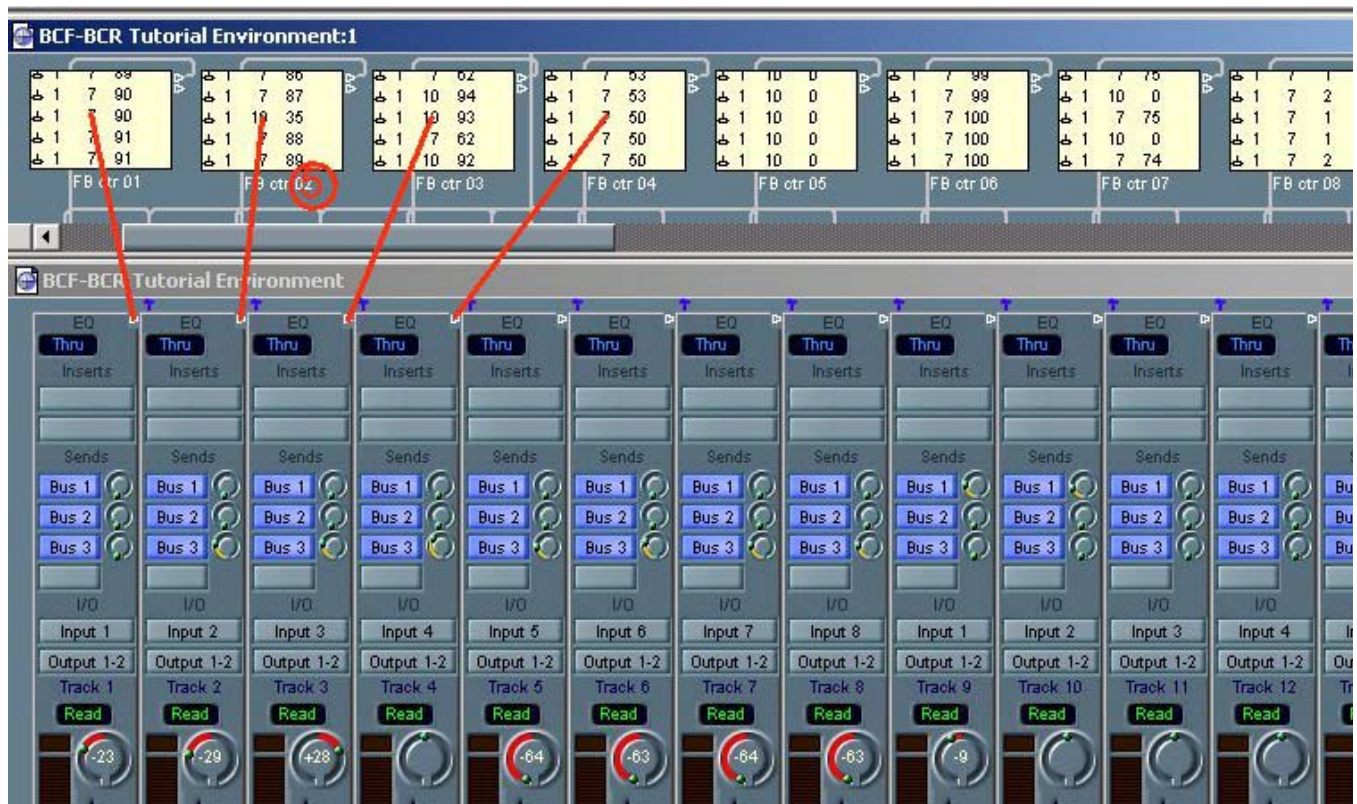
- Connect the **audio object outputs** (AUDIO layer) to the **FB ctr# monitor inputs** (CONTROL layer) -> **[5]**

- Move to screen set '4' in the tutorial song

- Go to the 'arrange' window and select the track **FB controller** at the track menu

- Please pay attention to the different operating modes in the window on the left bottom!

- Now please store your (auto load) song

- The installation is now complete

Be in control with the B-CONTROL!

*In the following passages we will describe **various control panel mode alternatives** of the Logic environment **for practical use.***

For implementing specific control settings there are some Logic structures to bear in mind. Please check the following instructions.

- **Mode 1 – Track Mixer**

    ... to control the Logic track mixer, writing automation, getting parameter feedback to the BCF/BCR2000 and more!

    The following settings are required:

    - Control target – Track Mixer
    - Feedback switch – On
    - Midi Cha: Slot # –
    - Slot select – Off
    - **Important:** For correct operation of the track mixer control, the track 'FB controller' has to be selected in the 'arrange' window!
    - **Hint:** You can remotely control the parameters of the mode control window with the four front buttons (b49 to b52) of the BCR2000; additionally, the Encoder 56 (in front of the BCR2000 on the right) selects the control targets.

        Logic: *BCR2000:*
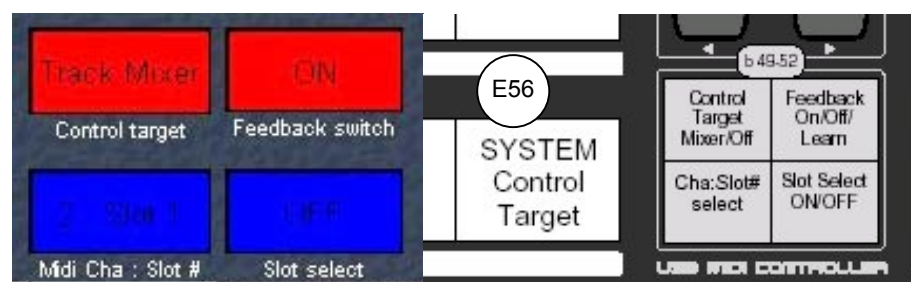
- **Mode 2 – Full Insert Control**

  ... to control strictly defined plug-ins/audio instruments with parameter feedback.

  The following settings are required:

  - Control target – Insert Ctrl # (Number of the audio object/plug-in you want to control)
  - Feedback switch – On
  - Midi Cha: Slot # –
  - Slot select – Off
  - **Important:** Please bear in mind that for 'Full Insert Control' you have to adhere to a very specific mode of operation!

    For example, if you use the BCR Preset 'BCR LOGIC comp-eq' for controlling the Compressor in slot 1 and the Fat EQ in slot 2, you *always* have to select the compressor in slot 1 and the EQ in slot 2, depending on the internal structure of Logic!
  - **Hint:** If mode is too inflexible for you, there is an alternative mode 3…

- **Mode 3 – Free Insert Control**

  ... for a more simple control of plug-ins/audio instruments but without parameter feedback.

  The following settings are required:

  - Control target – Insert Ctrl # (Number of the audio object/plug-in you want to control)
  - Feedback switch – Off
  - MIDI Cha: Slot # (Slot number, which contains the plug-in)
  - Slot select – On
  - **Hint:** In this mode, it doesn't matter in which slot the plug-in has been loaded. But please bear in mind that the B-CONTROL hardware will not indicate the elements of the changed parameter value (no parameter feedback)!

- **Mode 4 – Learn Mode**

  ... as an alternative way to assign B-CONTROL hardware elements to any plug-in parameter.

  The following settings are required:

  - Select the desired track in the arrange window
  - Control target – Insert Ctrl # (Number of the audio object/plug-in you want to control)
  - Feedback switch – Learn
  - MIDI Cha: Slot # (Slot number, which contains the plug-in)
  - Slot select – On
  - **Important:** Do *not* move any control element on your B-CONTROL hardware immediately after learning the parameter!

    Please select *first* 'Feedback Switch – Off' to prevent from MIDI loops and destabilizing the system!

Be in control with the B-CONTROL!