DDJ-1000 BOME mapping installation for Traktor

__(from version 6.7.0 and newer: now also applicable to all DDJ controllers [SX2/SZ/SRT/etc]. See Annexes for specific instructions!)__

*This mapping __requires__ the "BOME Midi translator Pro" third-party software.
A free trial is available. __Do not skip any step__!*

See also the FAQ in a separate pdf file, and the "gotchas" on page 34.
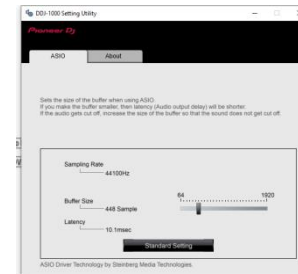
Step #0

CONFIRM THAT REKORDBOX PERFORMANCE MODE WORKS PROPERLY IN YOUR SYSTEM!!

Driver Download: https://www.pioneerdj.com/en/support/software/controller/ddj-1000/#drivers
Firmware download: https://www.pioneerdj.com/en/support/software/controller/ddj-1000/#firmware-update
Rekordbox DJ download: https://rekordbox.com/en/
VirtualDJ Instructions (for reference): https://www.virtualdj.com/manuals/hardware/pioneer/ddj1000/installation.html

Step #1

BOME TRIAL: <u>INSTALLATION</u>

do not skip any step!

BOME SOFTWARE INSTALLATION:
1. Download and install the BOME trial from
   https://www.bome.com/products/miditranslator#downloads

MAC-OS SECURITY ENABLE (see page 40 of the BOME manual):
1. **macOS 10.9** and later:
   1. System Preferences → Security & Privacy → Privacy → Accessibility -> Add "BOME"
2. **macOS 10.8** and earlier:
   1. System Preferences → Universal Access → check 'access for assistive devices'

3. **More info:** https://www.maketecheasier.com/macos-security-privacy-permissions/

macOS security:
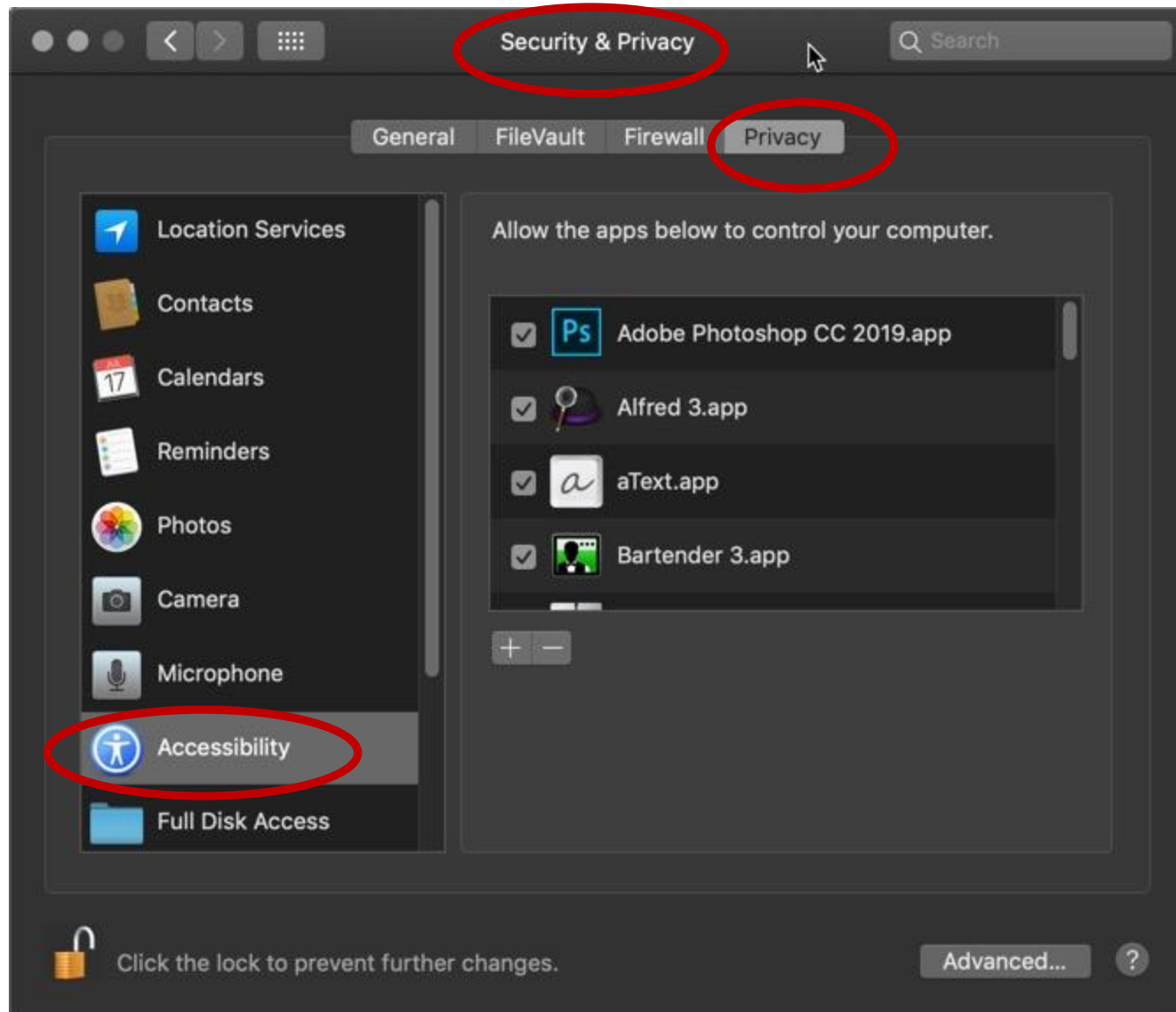
Step #2

MAP FOR BOME: <u>INSTALLATION</u>

*do not skip any step!*

PRELIMINARIES:
1. Stop Rekordbox
2. Stop Traktor
3. Expand all files in the zip file
4. Connect the USB cable
5. Turn on your DDJ-1000

INSTALLING BOME MAPPING:
1. Open BOME. DO NOT RUN TRAKTOR!

2. <u>Settings</u>: Import the <u>settings</u> file
   1. Method: menu View; settings; export/import; import; select BMTS file

3. <u>Mapping</u>: load the <u>mapping</u> file
   1. Method: Click menu File; Open; select BMTP file

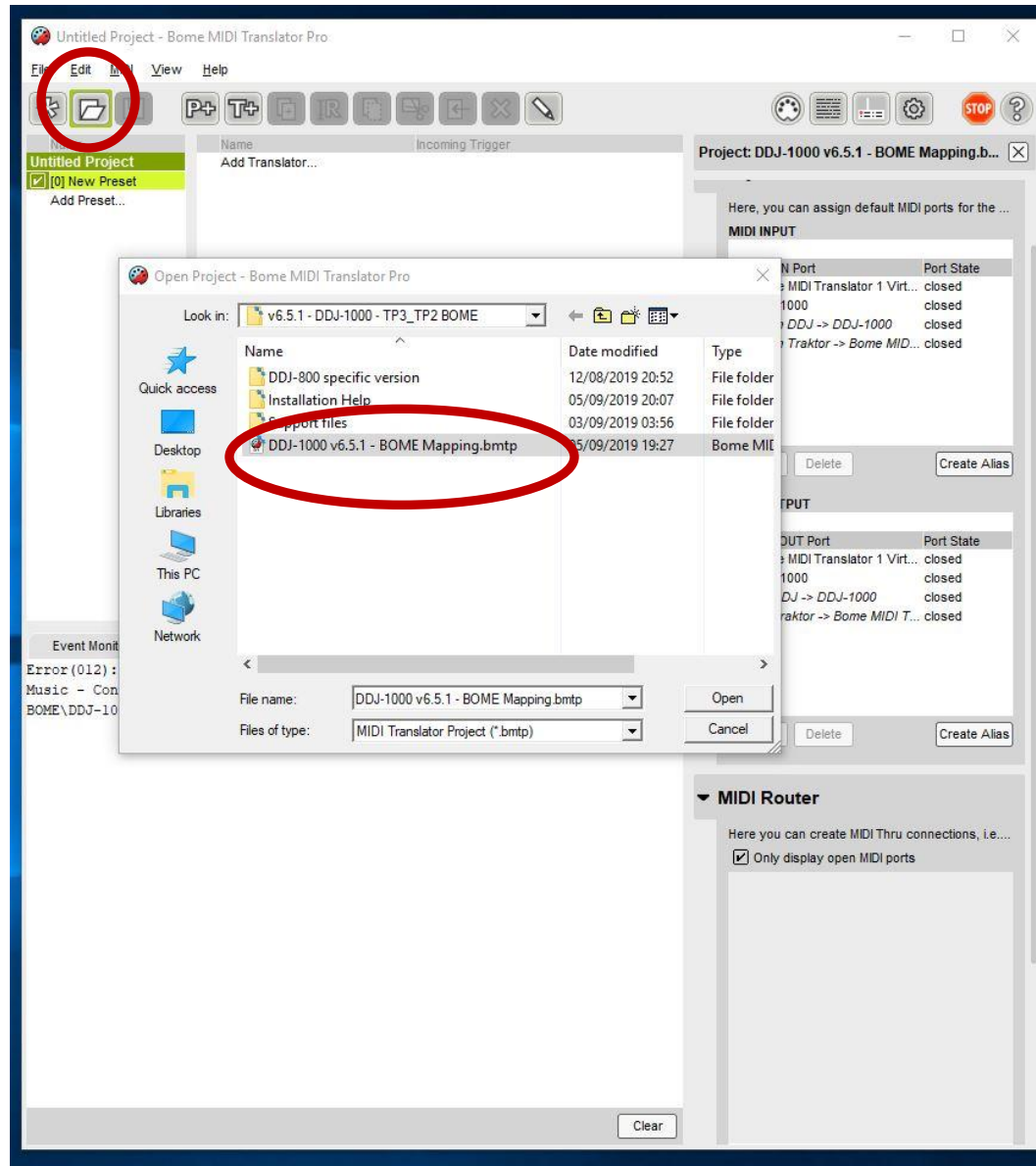4. Do not mix up the <u>Settings</u> file with the <u>Mapping</u> file! ⟵ Beware!

BOME: import settings file (BMTS file)
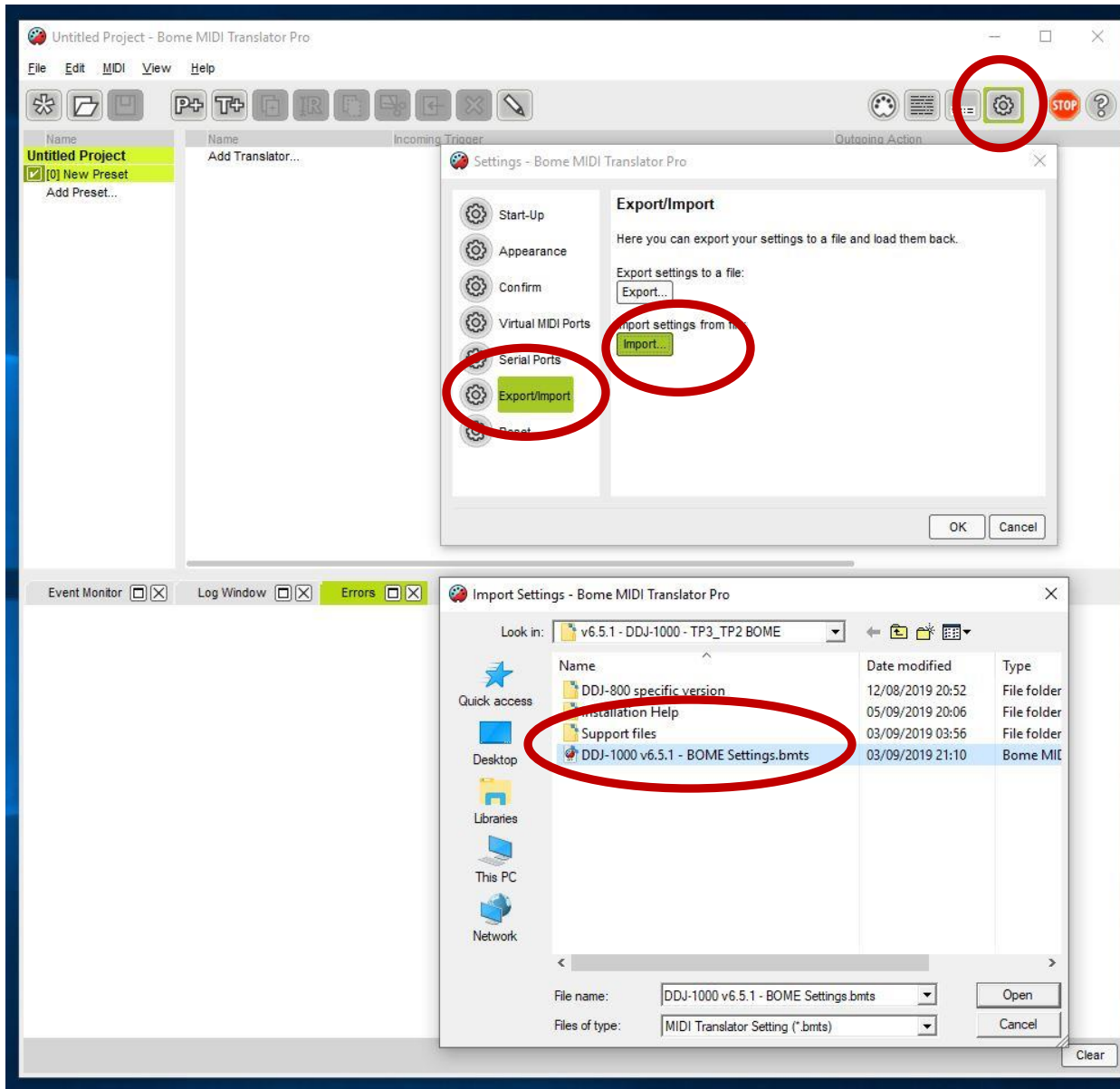
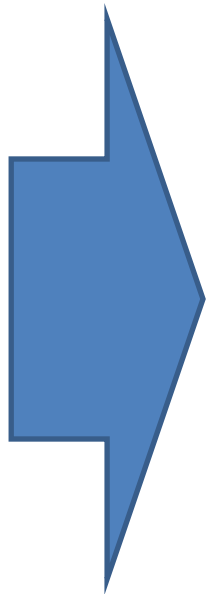# BOME: import mapping file (BMTP file)

BOME: Aliases

Select MIDI Devices - Bome MIDI Translat...   ✕

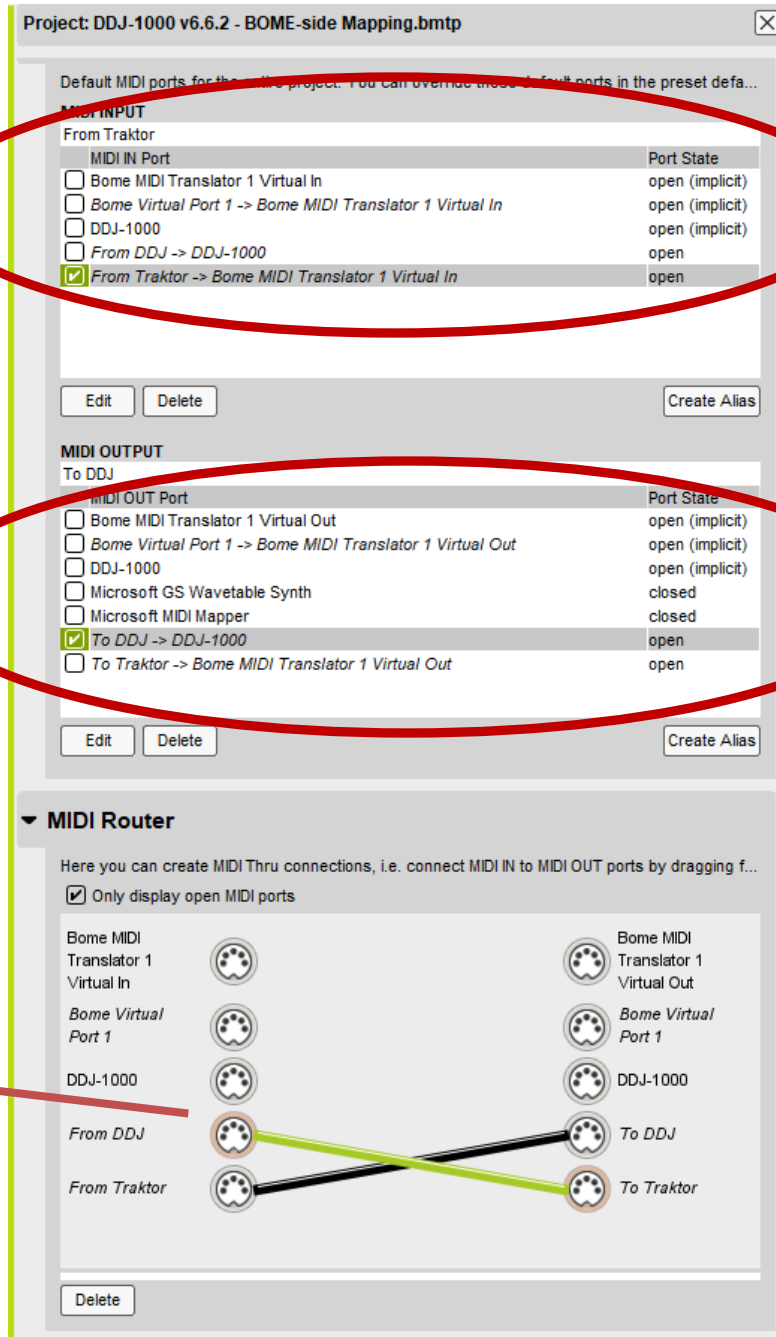Please select the MIDI devices:

Traktor:

INPUT: Bome MIDI Translator 1 Virtual In ▼

OUTPUT: Bome MIDI Translator 1 Virtual Out ▼

DDJ:

INPUT: DDJ-1000 ▼

OUTPUT: DDJ-1000 ▼

OK   Cancel

BOME: Devices

Confirm the devices are OPEN!

Ensure ONLY these 2x options are checked:
- "From Traktor" -> device 1 in OPEN
- "to DDJ" -> DDJ-1000 OPEN

Confirm it looks EXACTLY like on the picture
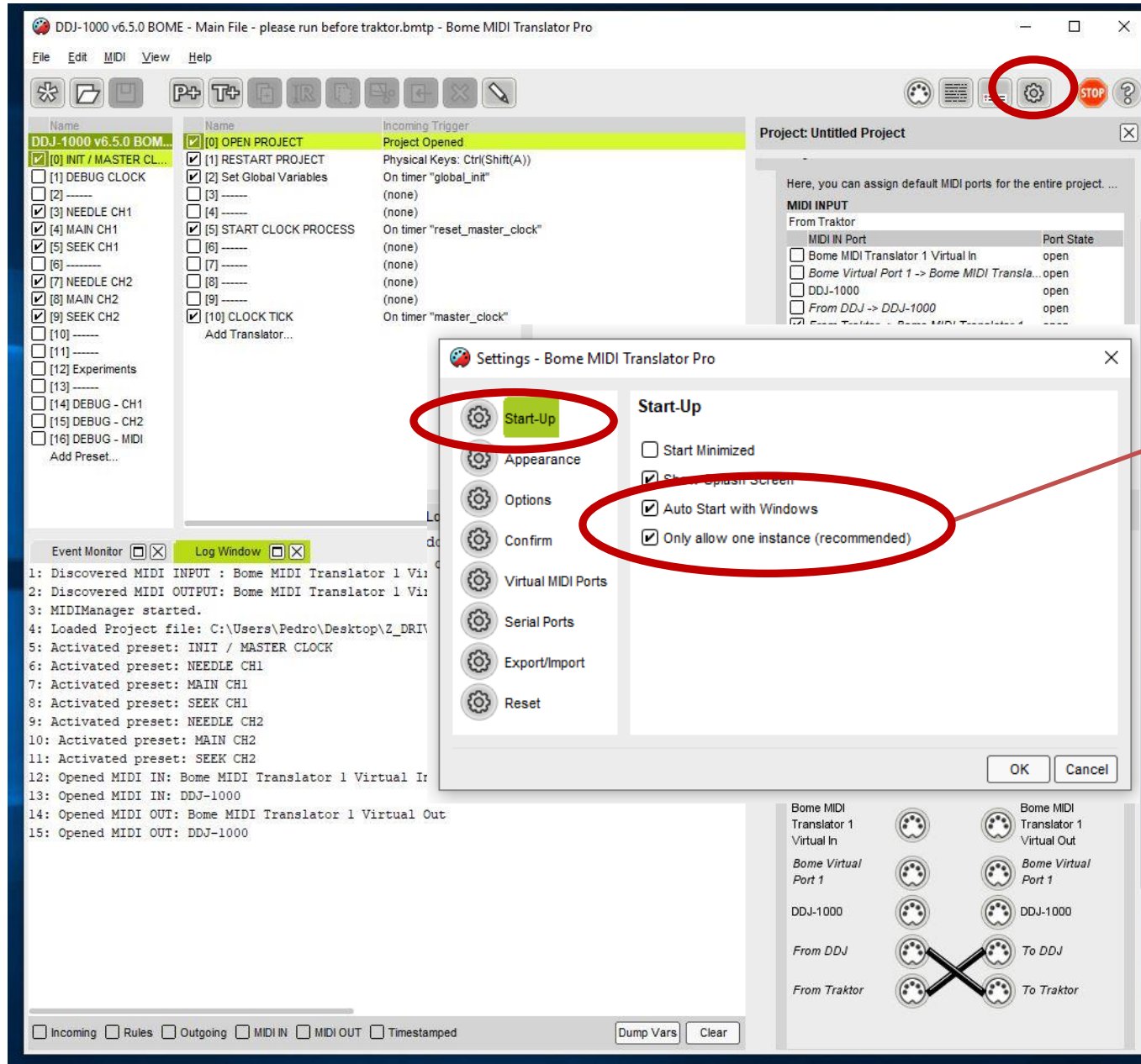
Confirm this "cross" on EXACTLY these aliases

Project: DDJ-1000 v6.6.2 - BOME-side Mapping.bmtp ☒

Default MIDI ports for the entire project. You can override these default ports in the preset defa...

MIDI INPUT
From Traktor

MIDI IN Port	Port State
☐ Bome MIDI Translator 1 Virtual In	open (implicit)
☐ Bome Virtual Port 1 -> Bome MIDI Translator 1 Virtual In	open (implicit)
☐ DDJ-1000	open (implicit)
☐ From DDJ -> DDJ-1000	open
☑ From Traktor -> Bome MIDI Translator 1 Virtual In	open

Edit Delete   Create Alias

MIDI OUTPUT
To DDJ

MIDI OUT Port	Port State
☐ Bome MIDI Translator 1 Virtual Out	open (implicit)
☐ Bome Virtual Port 1 -> Bome MIDI Translator 1 Virtual Out	open (implicit)
☐ DDJ-1000	open (implicit)
☐ Microsoft GS Wavetable Synth	closed
☐ Microsoft MIDI Mapper	closed
☑ To DDJ -> DDJ-1000	open
☐ To Traktor -> Bome MIDI Translator 1 Virtual Out	open

Edit Delete   Create Alias

▼ **MIDI Router**

Here you can create MIDI Thru connections, i.e. connect MIDI IN to MIDI OUT ports by dragging f...

☑ Only display open MIDI ports

Bome MIDI Translator 1 Virtual In	Bome MIDI Translator 1 Virtual Out
Bome Virtual Port 1	Bome Virtual Port 1
DDJ-1000	DDJ-1000
From DDJ	To DDJ
From Traktor	To Traktor

Delete

Step #3

MAP FOR BOM: <u>VERIFICATION</u>

do not skip any step!

BOME VERIFICATION STEPS:
1. Confirm the "Bome MIDI Translator 1" device is created (longformat)
   1. Method: menu View ; settings ; virtual midi ports ; 1 port; long port names

2. Confirm the 4x midi ports were opened correctly
   1. Method: Click log window; check log

3. Confirm that the Controller talks to BOME
   1. Method: Click log window; click "MIDI-IN/OUT"; Press any button on the controller; confirm they appear in the log file; unclick "MIDI-IN/OUT"

4. Confirm that the BOME clock is running
   1. Method: Click log window; click "rules"; see a lot of messages appearing
   2. unclick "rules" to stop loggin

5. Minimize BOME to keep it running

BOME settings: auto start with windows

BOME settings: long port name device

Long port names!

BOME: Correct startup log

Do not change this!

Default is ONLY
- "From Traktor" OPEN
- "to DDJ" OPEN

confirm devices are OPEN!

4x messages here!

Do not change this "cross"!

BOME: confirm DDJ talks to BOME

Event Monitor ☐ ☒   Log Window ☐ ☒

```
1: MIDI IN [DDJ-1000]: 93 0C 7F
2: MIDI OUT [Bome MIDI Translator 1 Virtual Out]: 93 0C 7F
3: MIDI IN [DDJ-1000]: 93 0C 00
4: MIDI OUT [Bome MIDI Translator 1 Virtual Out]: 93 0C 00
```
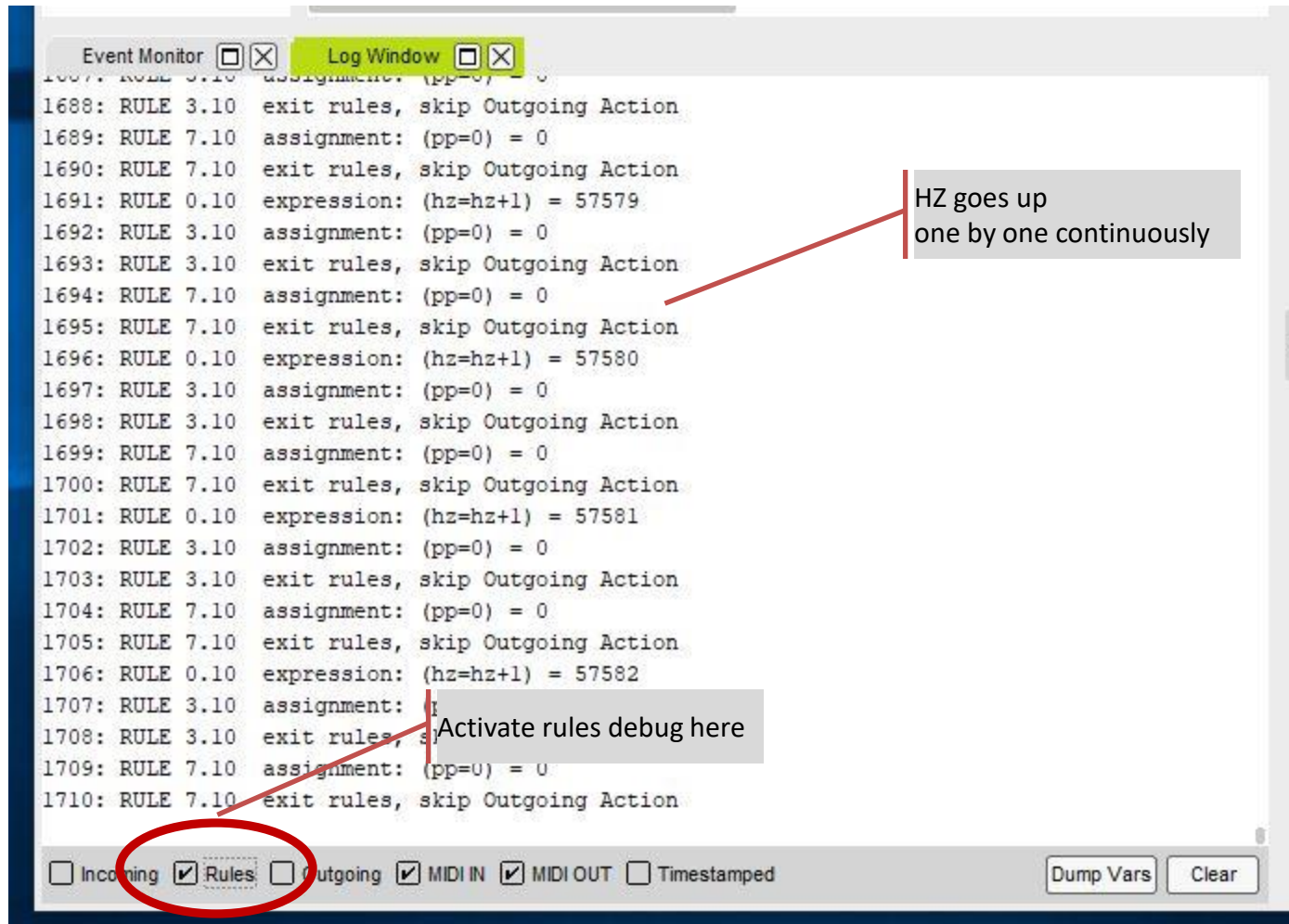
Pressing and releasing any button generates 4 log lines. This is always in the DDJ->BMT1 direction

Activate MIDI debug here

☐ Incoming ☐ Rules ☐ Outgoing ☑ MIDI IN ☑ MIDI OUT ☐ Timestamped   Dump Vars   Clear

BOME: confirm internal clock

HZ goes up
one by one continuously

Activate rules debug here

(Please click "rules" again to stop the logging)   **Tip!**

Step #4

## MAP FOR TRAKTOR: <u>INSTALLATION</u>

do not skip any step!

CREATE A BACKUP:
1. Note: the mapping replaces a lot of your settings. In any cases, Traktor always makes automatic backups in "Root_Dir\Backup\Settings"

1. Open Traktor
2. Click Settings
3. Click big "export button" on lower left corner
4. Ensure all settings are clicked
5. Save the file

INSTALL TRAKTOR MAPPING:
1. Click Settings
2. Click big "import button" on lower left corner
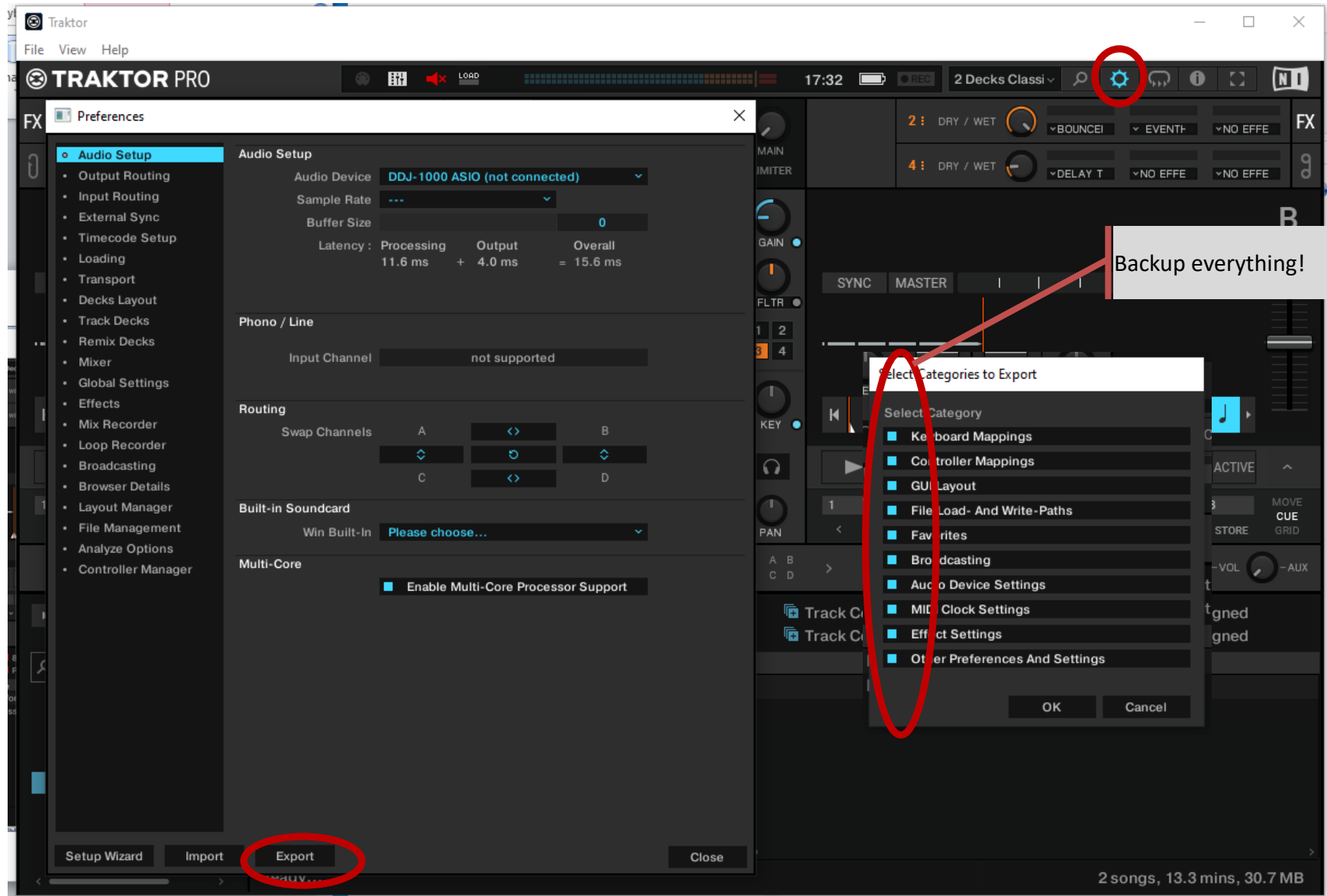3. Accept all checks; PLUS additionally click the "Audio device settings" ⬅ Extra click!
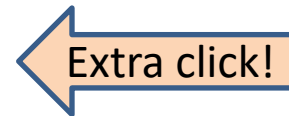
INSTALL TRAKTOR MAPPING (second time):
1. Repeat above process a second time. This is <u>only</u> to avoid a Traktor bug that gets the FX list wrong.
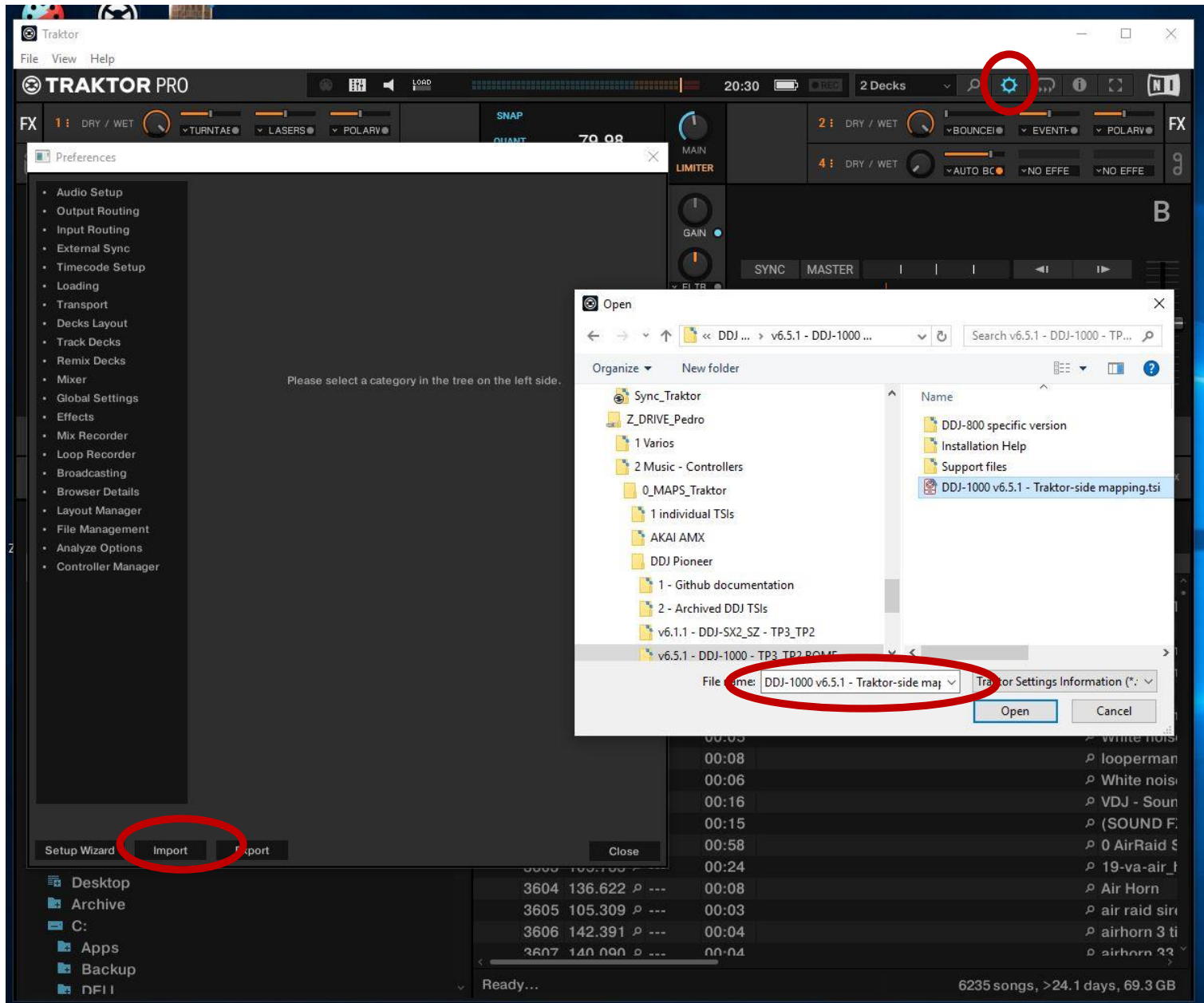
MAC-OS AUDIO OUTPUT ROUTING:
1. Set preferences / Output Routing / Internal to: 2 / 3 / 0 / 1
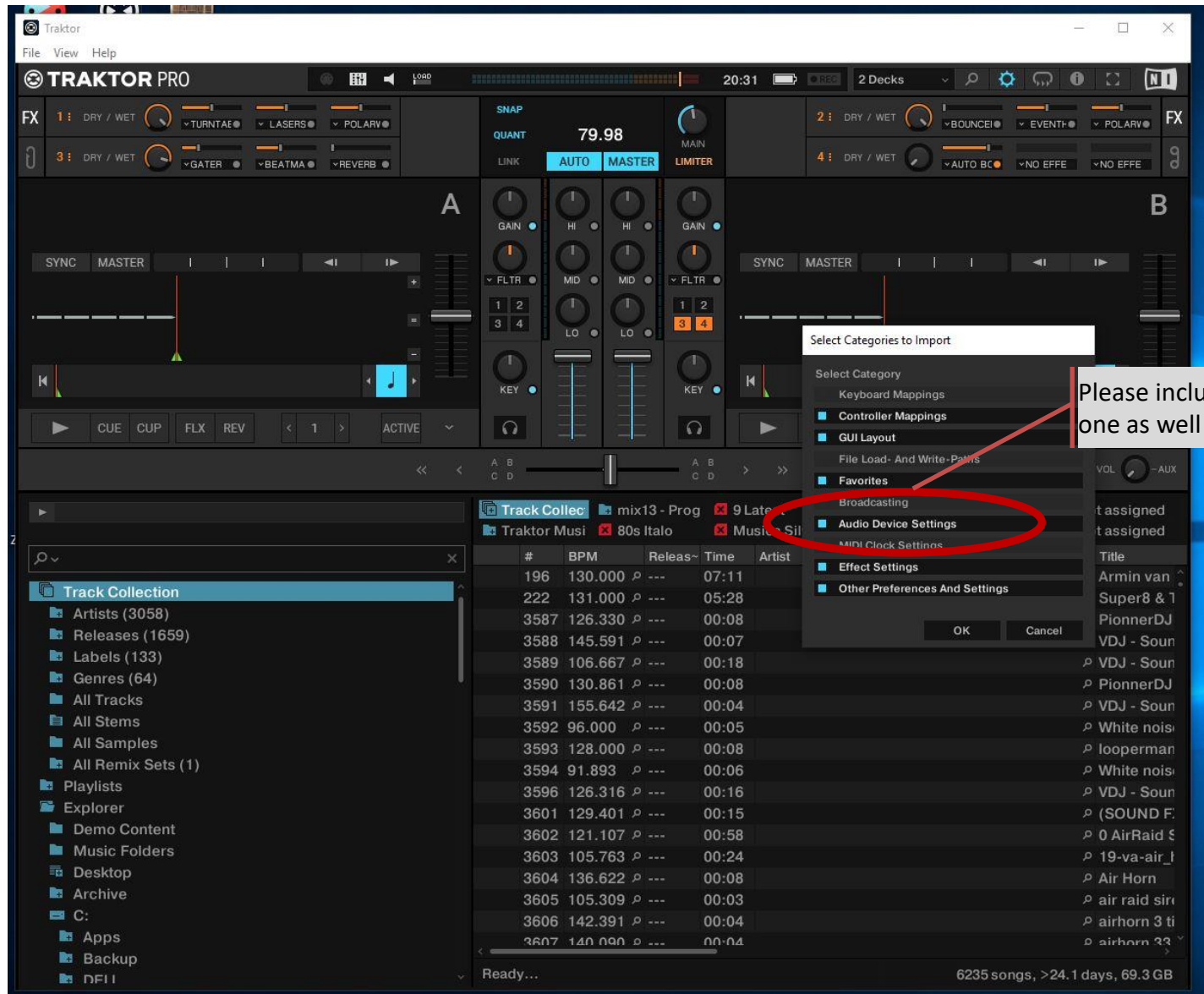
TRAKTOR: create backup of your settings

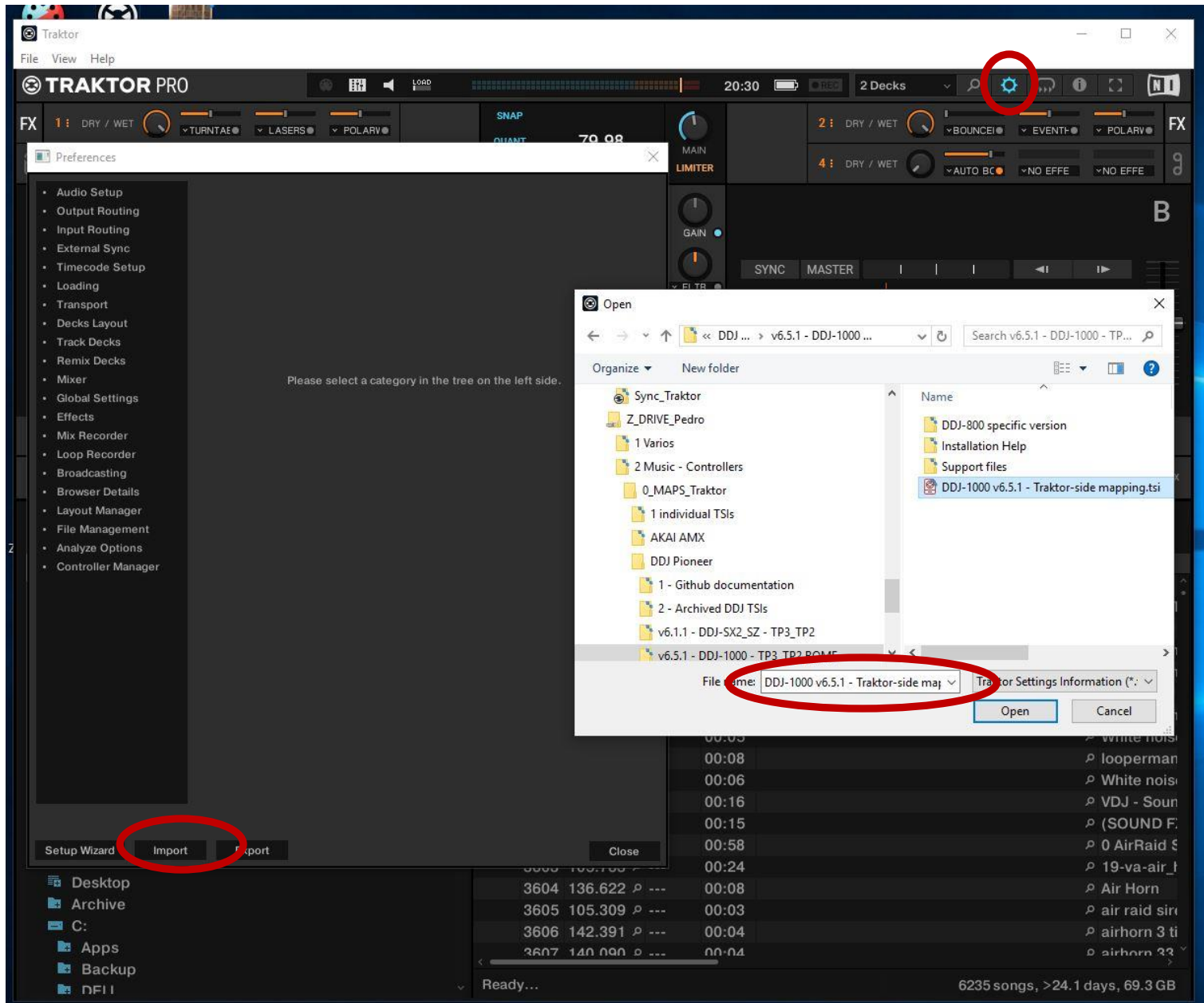

Backup everything!

TRAKTOR: import mapping

TRAKTOR: click audio device config

TRAKTOR: import mapping (second time)

Step #5

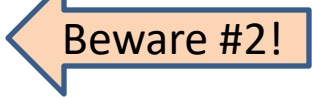## MAP FOR TRAKTOR: <u>VERIFICATION</u>

do not skip any step!

TRAKTOR VERIFICATION:

Note: the Preferences window is now quite slow to open. This is another Traktor bug.

1. Confirm the audio device is "DDJ-1000 ASIO"
    1. Method: Settings ; audio setup ; confirm audio device

2. Confirm the Output routing
    1. Method: Settings ; output routing; confirm "internal"; confirm "3 / 4 / 1 / 2"

3. Confirm that all 6x pages have exactly "Bome Midi Translator1"
    1. Method: Settings; controller manager; click each of the 6x pages one-by-one; check IN and OUT port
    2. ***DO NOT CHANGE TO DDJ-1000 in the controller manager!!!*** Beware #1!
    3. ***DO NOT FORGET TO CONFIRM ALL 6x PAGES!*** Beware #2!

4. Verify that sound is played
    1. Method: Load a track; click Cue and play/pause repeatedly
    2. Use shift+quantize to send a reset command to BOME

5. Verify that BOME sees all the messages
    1. Method: open the bome window; click the "CUE" button; verify that the BOME log displays at least 8x log lines per human click
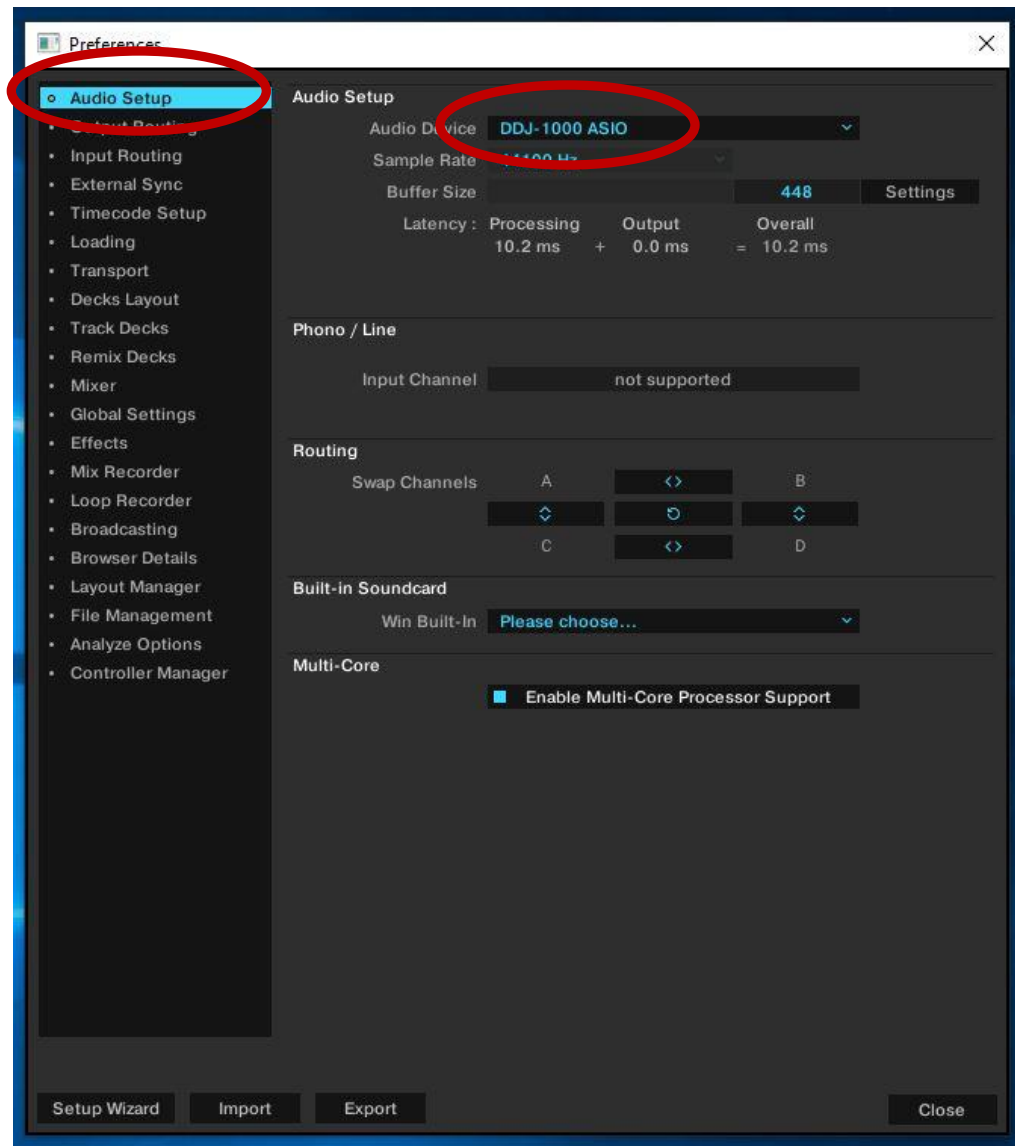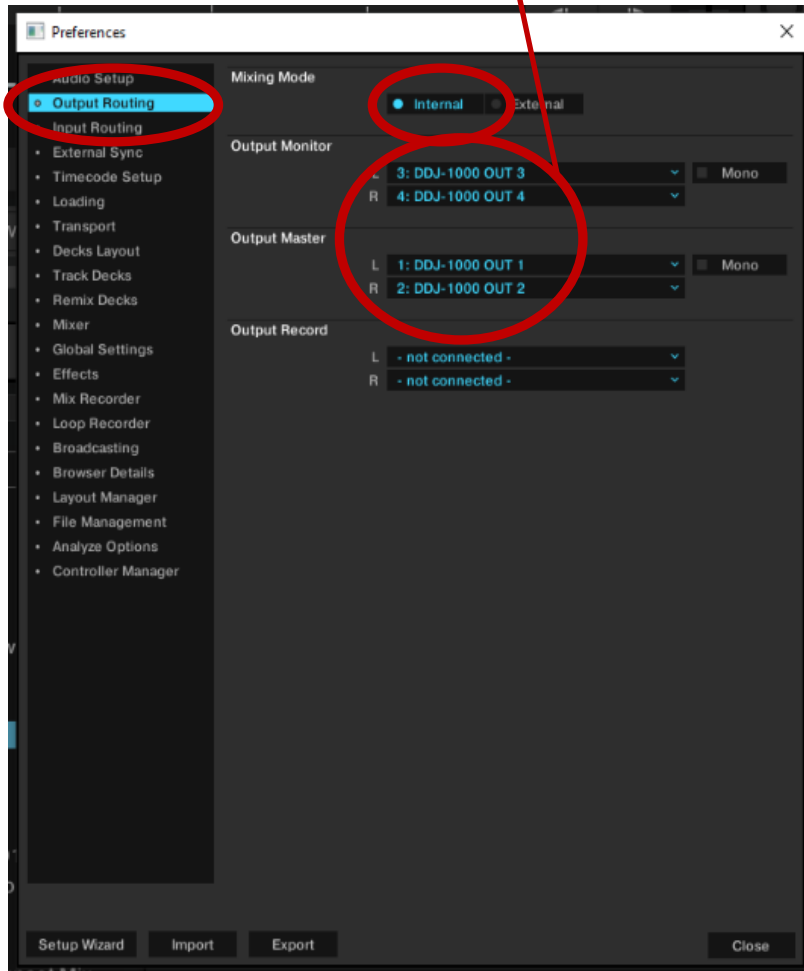
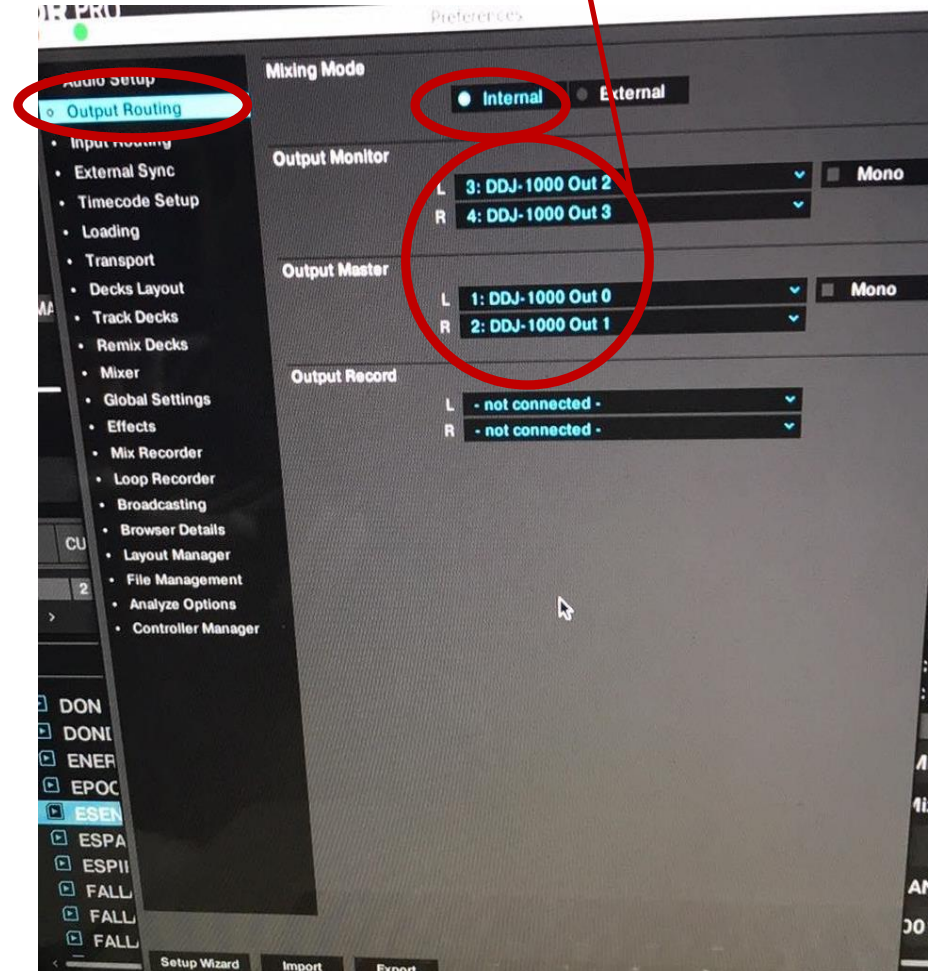# *TRAKTOR: check audio device*

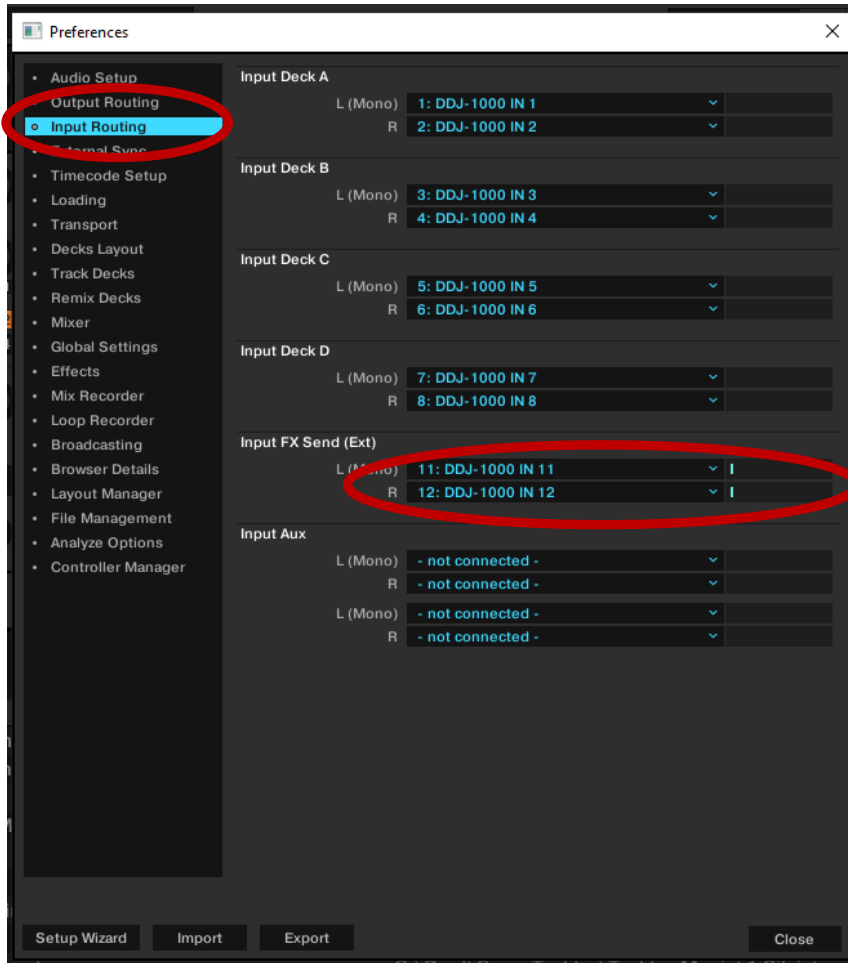# TRAKTOR: check output routing

Windows: channels are
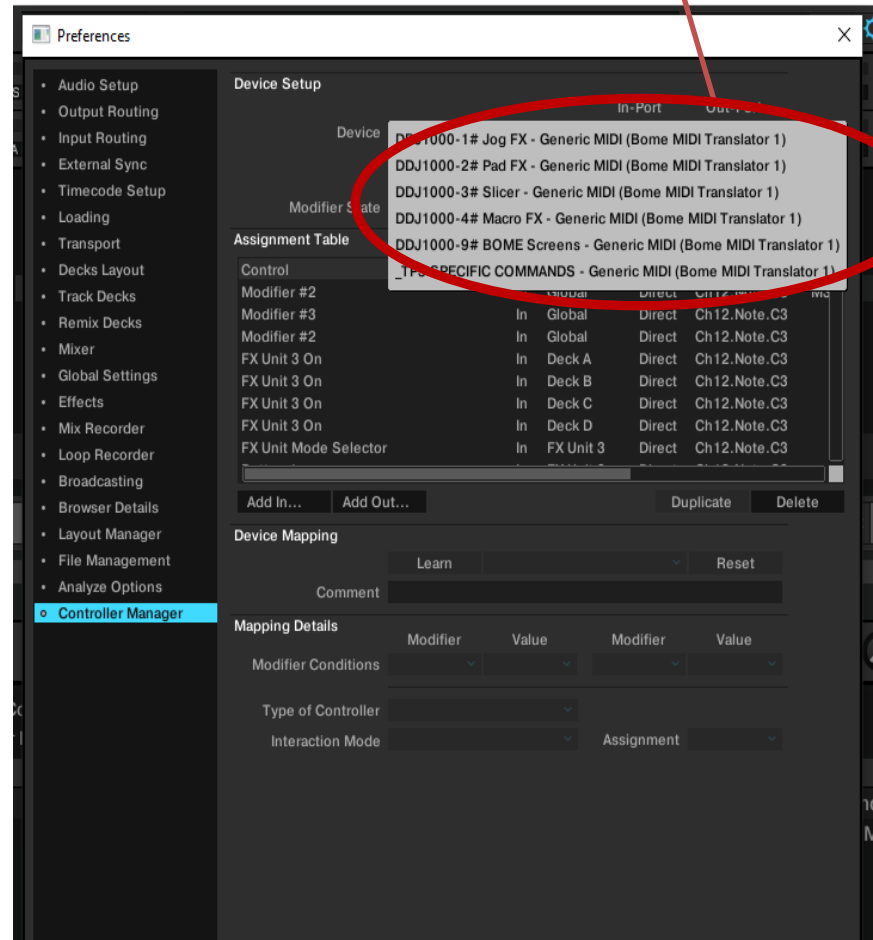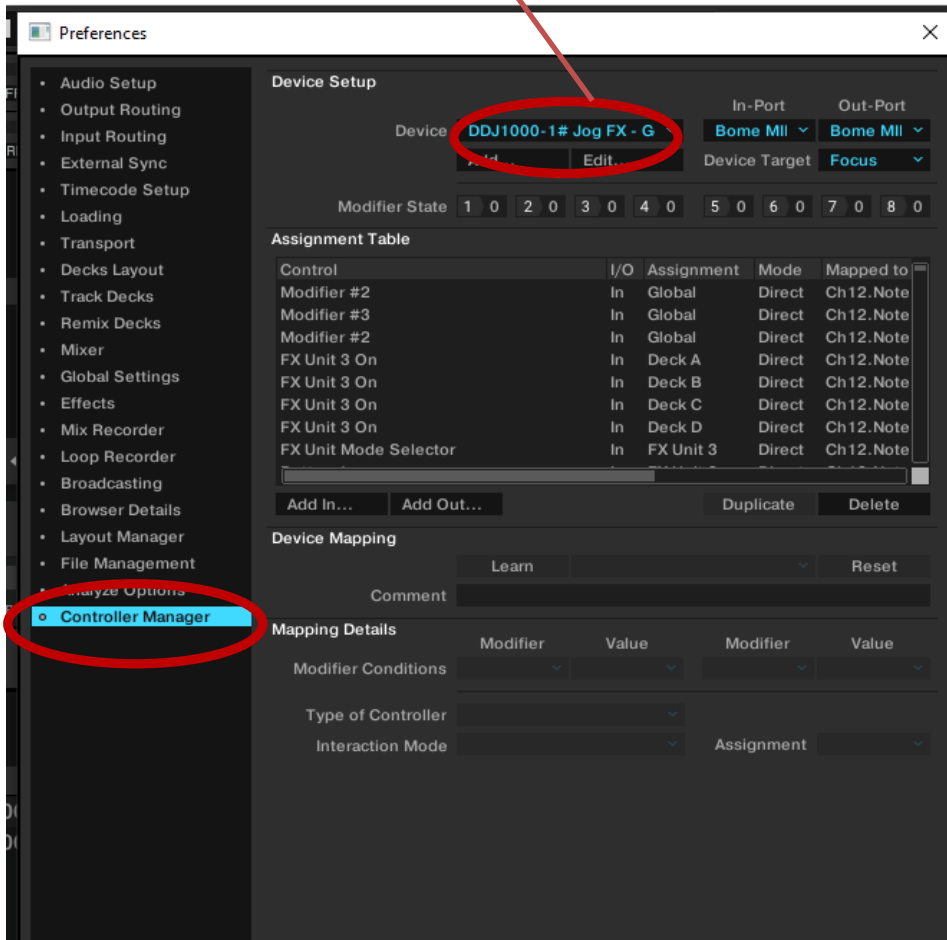3 / 4 / 1 / 2

Windows: channels are
2 / 3 / 0 / 1

TRAKTOR: recording settings

TRAKTOR: check MIDI device is long format

first click here

Both IN and OUT = Long format
For ALL 6 PAGES!

BOME: confirm bidirectional flow

Event Monitor Log Window

```
1: MIDI IN [DDJ-1000]: 91 35 7F
2: MIDI OUT [Bome MIDI Translator 1 Virtual Out]: 91 35 7F
3: MIDI IN [Bome MIDI Translator 1 Virtual In]: 90 6A 00
4: MIDI OUT [DDJ-1000]: 90 6A 00
5: MIDI IN [Bome MIDI Translator 1 Virtual In]: 90 35 00
6: MIDI OUT [DDJ-1000]: 90 35 00
7: MIDI IN [Bome MIDI Translator 1 Virtual In]: 91 35 00
8: MIDI OUT [DDJ-1000]: 91 35 00
9: MIDI IN [Bome MIDI Translator 1 Virtual In]: 91 6A 00
10: MIDI OUT [DDJ-1000]: 91 6A 00
11: MIDI IN [Bome MIDI Translator 1 Virtual In]: 92 35 00
12: MIDI OUT [DDJ-1000]: 92 35 00
13: MIDI IN [Bome MIDI Translator 1 Virtual In]: 92 6A 00
14: MIDI OUT [DDJ-1000]: 92 6A 00
15: MIDI IN [Bome MIDI Translator 1 Virtual In]: 93 6A 00
16: MIDI OUT [DDJ-1000]: 93 6A 00
17: MIDI IN [Bome MIDI Translator 1 Virtual In]: 93 35 00
18: MIDI OUT [DDJ-1000]: 93 35 00
19: MIDI IN [DDJ-1000]: 91 35 00
20: MIDI OUT [Bome MIDI Translator 1 Virtual Out]: 91 35 00
```

☐ Incoming ☐ Rules ☐ Outgoing ☑ MIDI IN ☑ MIDI OUT ☐ Timestamped   Dump Vars   Clear

Pressing and releasing any button generates at least 8x log lines.
This is both in the DDJ->BMT1 direction and the BMT1->DDJ direction

Stop "rules" log

Step #6

PROPER START SEQUENCE

PROPER START-UP SEQUENCE IF YOU HAVE PROBLEMS:

0) Stop everything

1) Start Laptop
2) Start DDJ-1000
3) Start BOME
4) Start Traktor

IF ITS STILL NOT WORKING #1

Audio doesn't work:
Re-confirm the DDJ-1000 is your audio device
Re-confirm output routing is 3/4/1/2 in windows and 2/3/0/1 in macOS
Re-confirm Rekordbox performance mode works.

Audio works - but MIDI doesn't :
Re-confirm you have BOME in the macOS accessibly security
Re-confirm you have "Bome midi Translator 1" on all 6x pages in Traktor

MIDI works but jog screens / Leds doesn't :
Reset the jog Screens using shift+quantize
Start components in this order: #1 Laptop #2 DDJ #3 BOME #4 Traktor

IF ITS STILL NOT WORKING #2

Make a HD video of the verification steps, INCLUDING THE BOME LOG. Put your phone really close to the screen for me to read the small text!

Upload the video to https://wetransfer.com and send an email to pedro.estrela@gmail.com

ANNEXES

DDJ-1000: forced MIDI mode

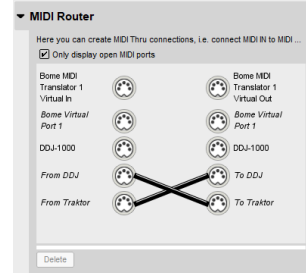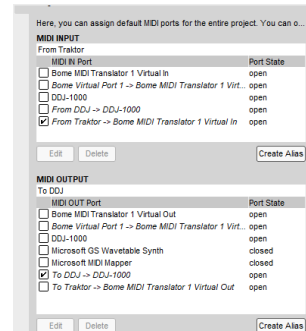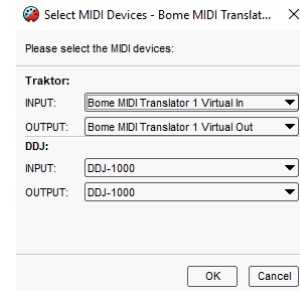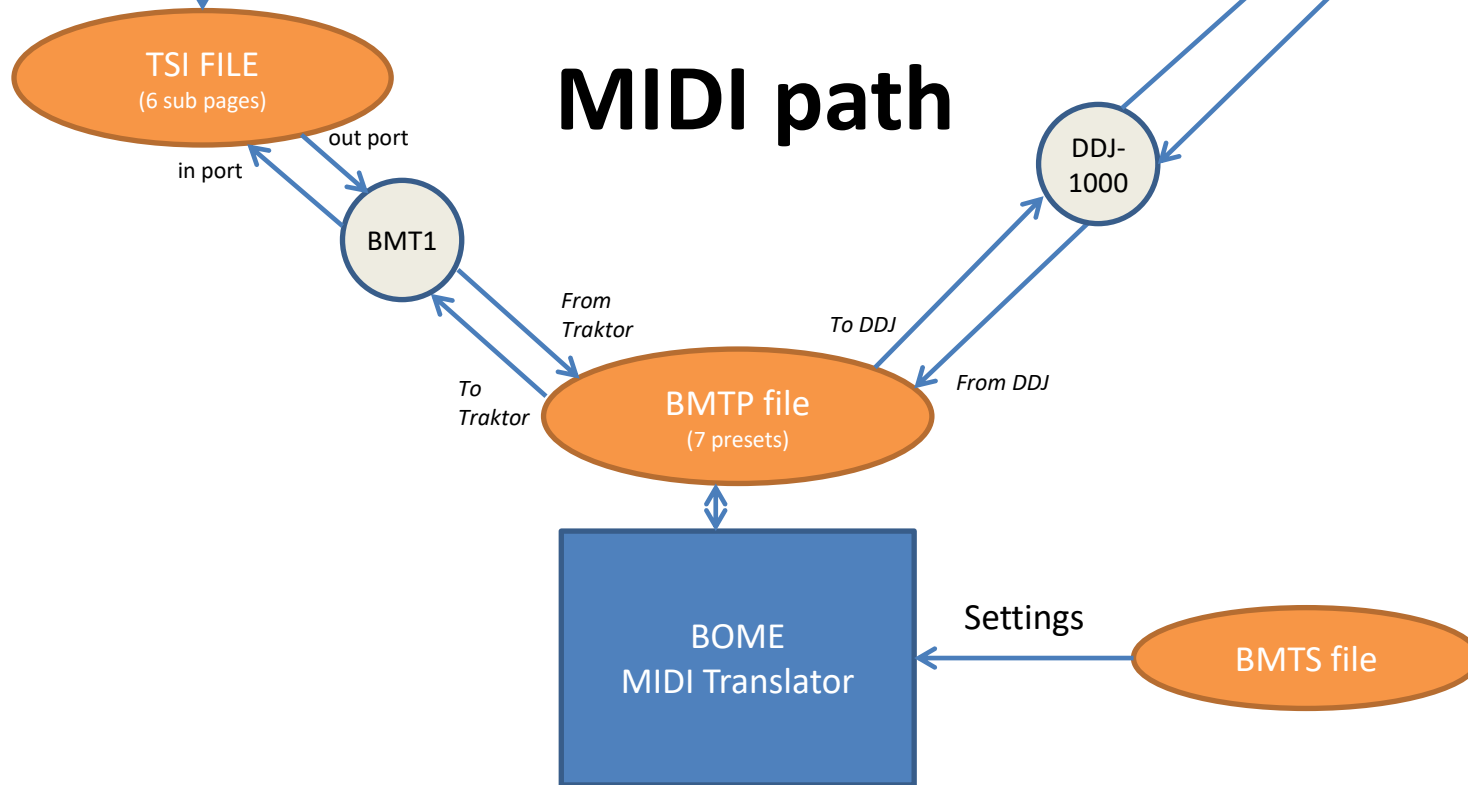In my experience there is **no need** to set the unit to forced MIDI mode.

If this is ever necessary, instructions are on page 26 of the DDJ-1000 manual:

- no USB cable
- power off DDJ
- Press left play + left shift + turn on DDJ
- left Slip Reverse:
  - Off = auto mode
  - ON = forced mode
- Power off DDJ
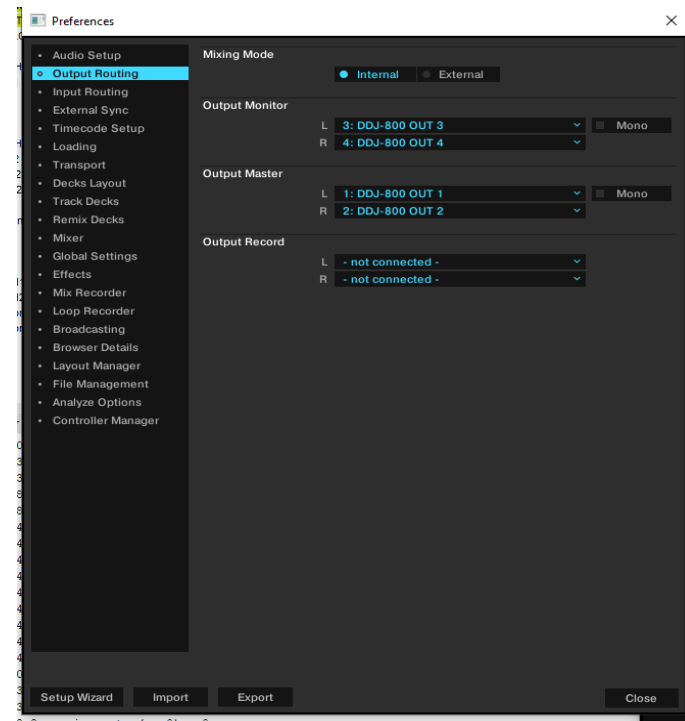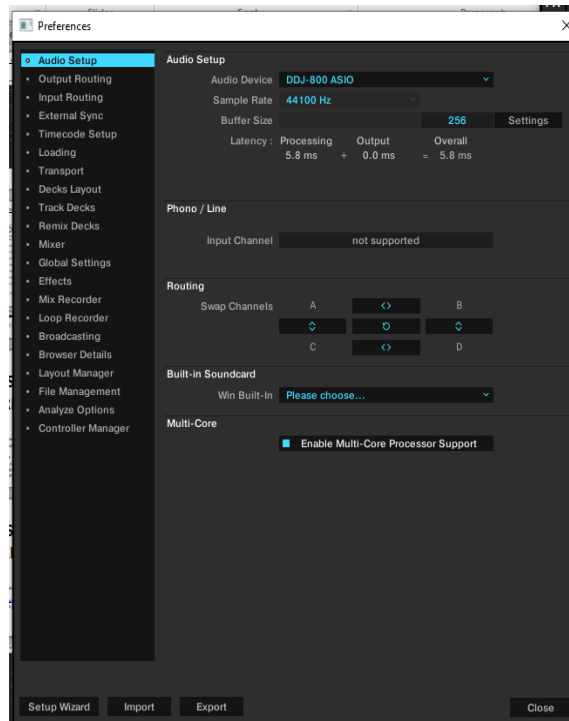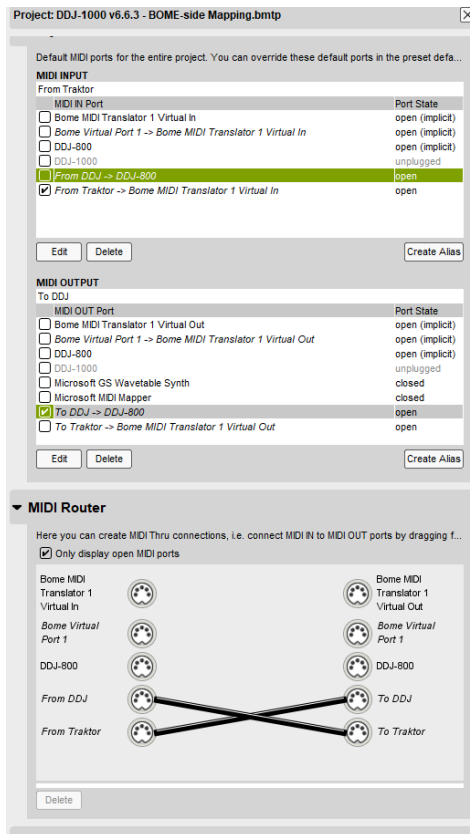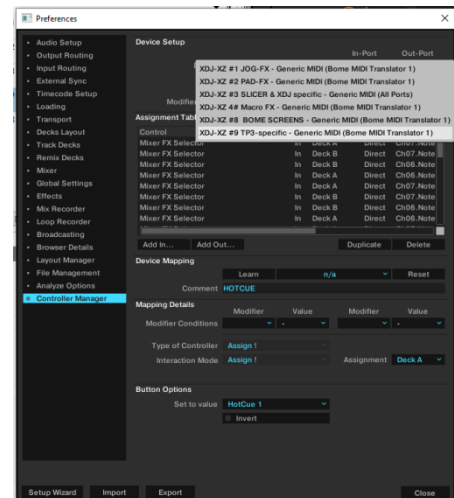- Power ON DDJ
- insert USB cable.

AUDIO path

MIDI path

TRAKTOR
DJ Software

DDJ-1000
OS Driver

USB

TSI FILE
(6 sub pages)

out port

in port

BMT1

From Traktor

To Traktor

BMTP file
(7 presets)

To DDJ

From DDJ

DDJ-1000

BOME
MIDI Translator

Settings

BMTS file

Select MIDI Devices - Bome MIDI Translat...   X

Please select the MIDI devices:

Traktor:
INPUT: Bome MIDI Translator 1 Virtual In
OUTPUT: Bome MIDI Translator 1 Virtual Out
DDJ:
INPUT: DDJ-1000
OUTPUT: DDJ-1000

OK   Cancel

Here, you can assign default MIDI ports for the entire project. You can o...

MIDI INPUT
From Traktor

MIDI IN Port	Port State
Bome MIDI Translator 1 Virtual In	open
Bome Virtual Port 1 -> Bome MIDI Translator 1 Virt...	open
DDJ-1000	open
From DDJ -> DDJ-1000	open
From Traktor -> Bome MIDI Translator 1 Virtual In	open

Edit   Delete   Create Alias

MIDI OUTPUT
To DDJ

MIDI OUT Port	Port State
Bome MIDI Translator 1 Virtual Out	open
Bome Virtual Port 1 -> Bome MIDI Translator 1 Virt...	open
DDJ-1000	open
Microsoft GS Wavetable Synth	closed
Microsoft MIDI Mapper	closed
To DDJ -> DDJ-1000	open
To Traktor -> Bome MIDI Translator 1 Virtual Out	open

Edit   Delete   Create Alias

MIDI Router

Here you can create MIDI Thru connections, i.e. connect MIDI In to MIDI ...
Only display open MIDI ports

Bome MIDI Translator 1 Virtual In   Bome MIDI Translator 1 Virtual Out
Bome Virtual Port 1   Bome Virtual Port 1
DDJ-1000   DDJ-1000
From DDJ   To DDJ
From Traktor   To Traktor

Delete

ANNEX: DDJ-800

ANNEX: XDJ-XZ
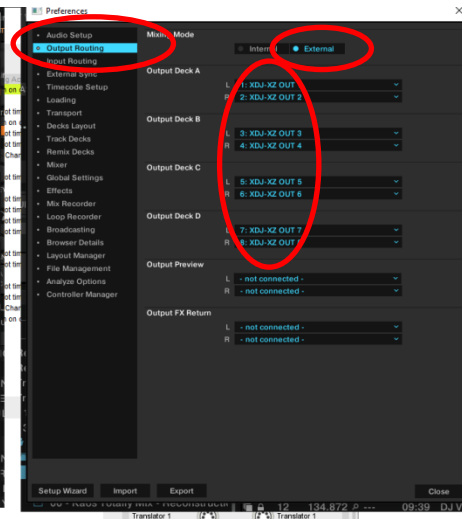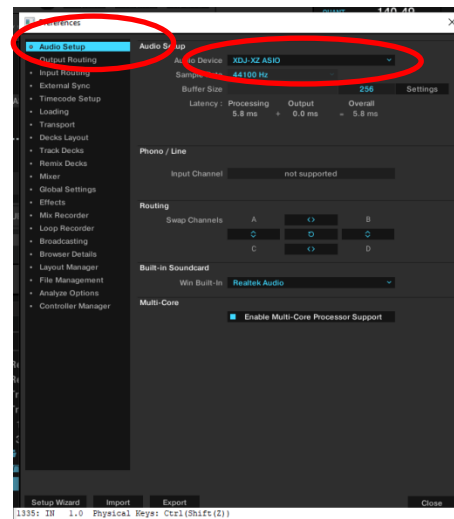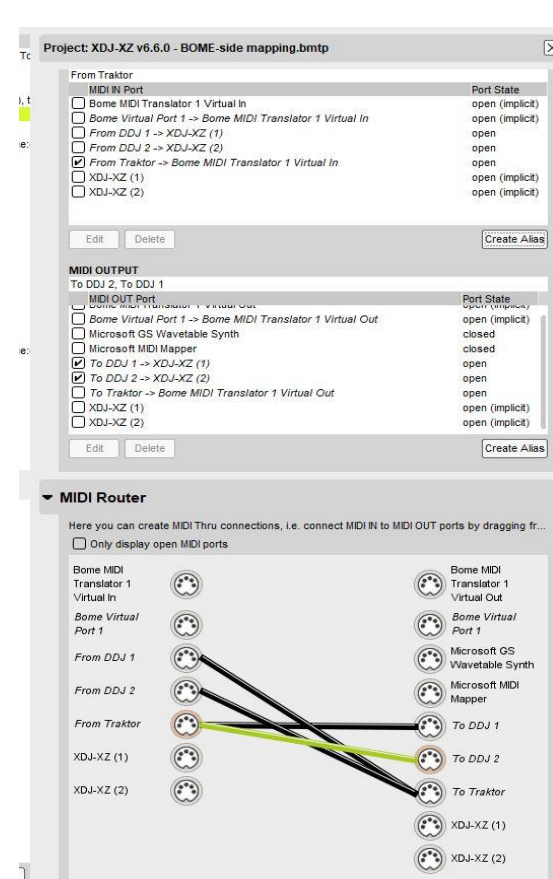
ANNEX: DDJ-1000SRT

DDJ-1000SRT specific instructions for the Traktor mapping (for v6.1.X – not yet updated to V6.7.0 BOME)

Please use the specific TSI for the DDJ-1000SRT. This is the same mapping as the DDJ-SZ mapping, but with small customizations to make it work well on the SRT:

- Jog screens are NOT supported. This is because they are not documented on the Pioneer MIDI map file. Please request this in https://serato.com/forum/discussion/1736390
- Please put your jog weight to "heavy"
  - This will significantly improve scratching and jogFX
- Audio device in external mode.
  - This means that ALL the pioneer effects (both colorFX and beatFX work for USB sources
  - See next slides for config
- Please avoid VINYL OFF mode. The TSI disables jog touch in this case, but the jog loses resolution compared to VINYL ON mode
- Beatjump buttons added. Please use shift+IN/OUT to configure the loop size (=jump size)
- BeatFX ON/OFF is now for pioneer beatFX only
- Automatic layout changing was removed

ANNEX: DDJ-1000SRT

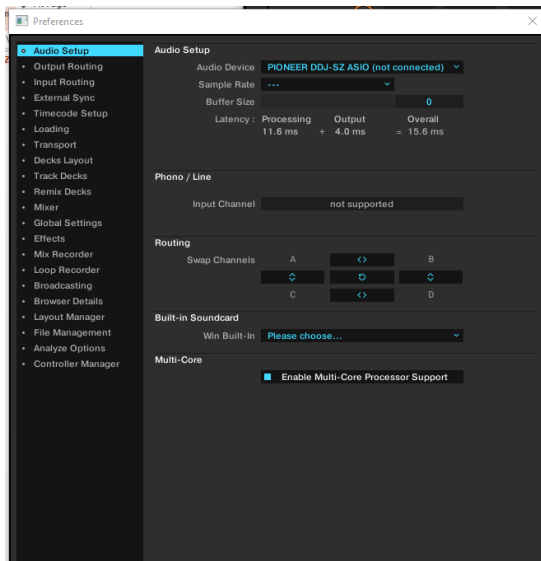*(note: pictures are for v6.1.X; v6.7.0 will also work, but was not tested yet)*
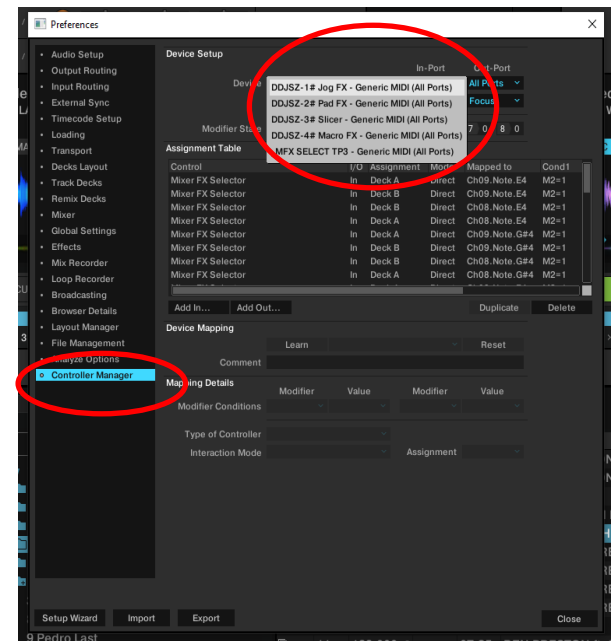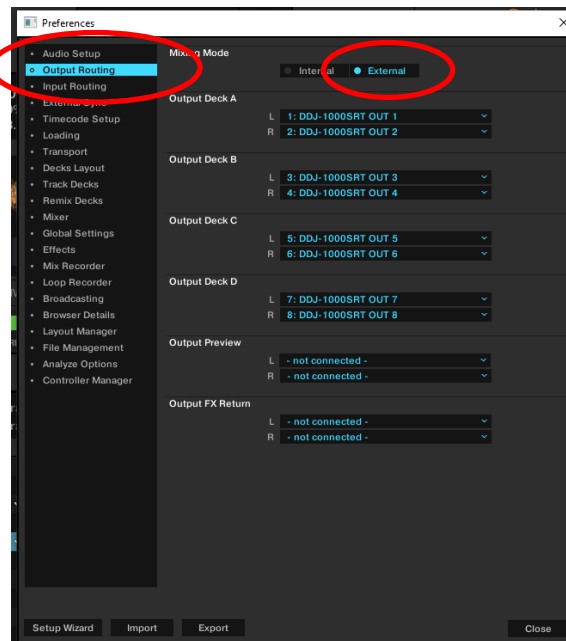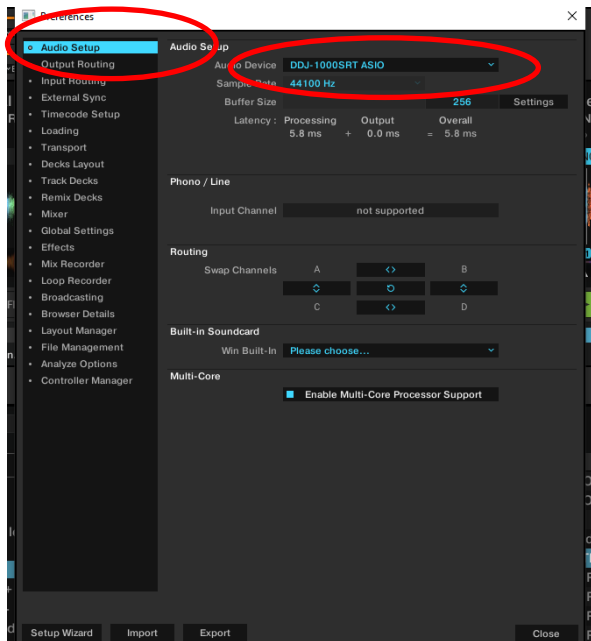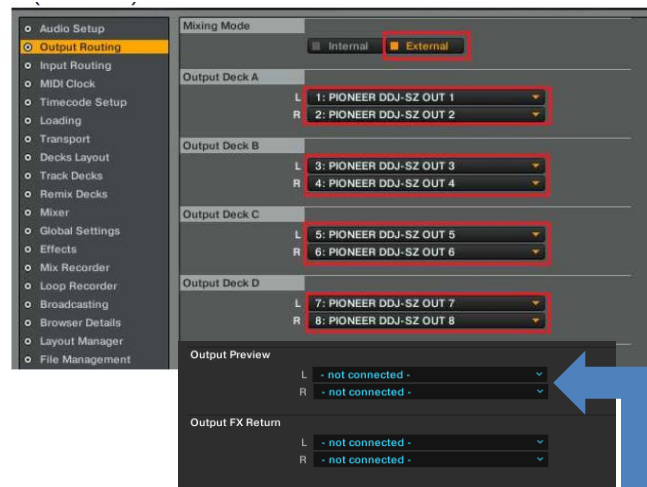
ANNEX: DDJ-SZ
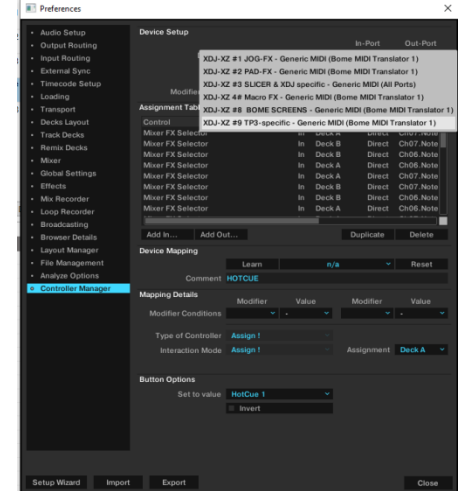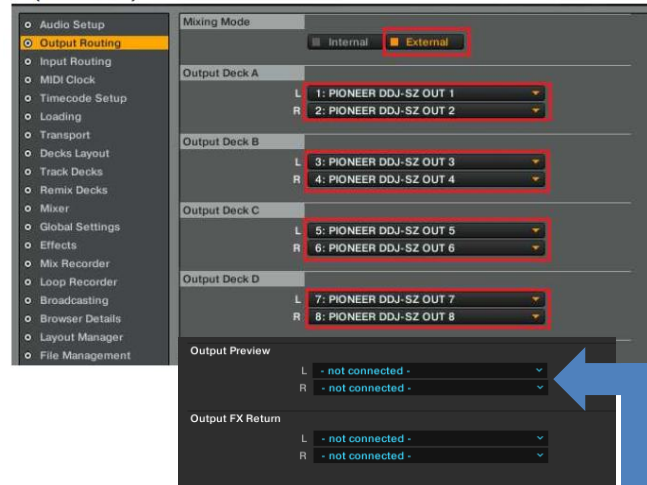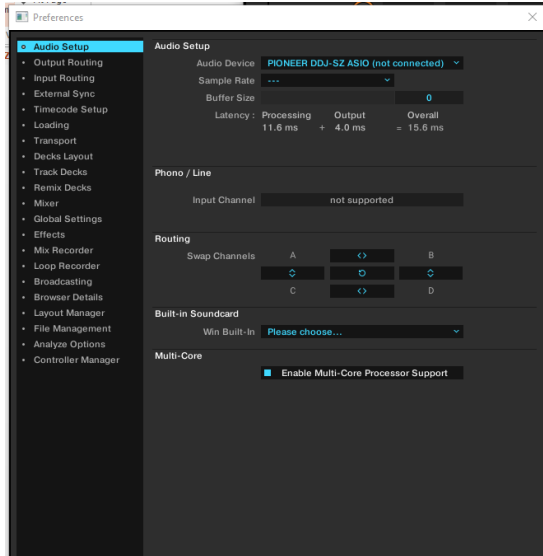
SET PREVIEW TO
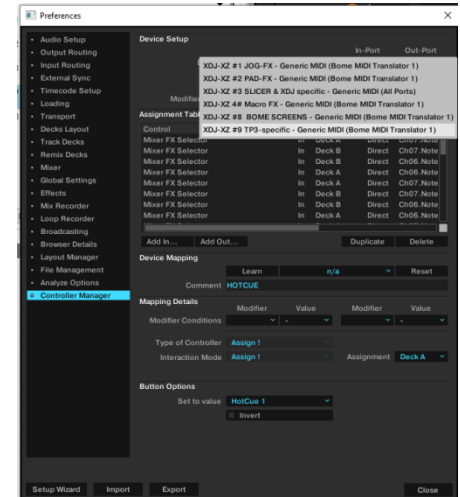SAME VALUES
AS DECK 4!

ANNEX: DDJ-SX3

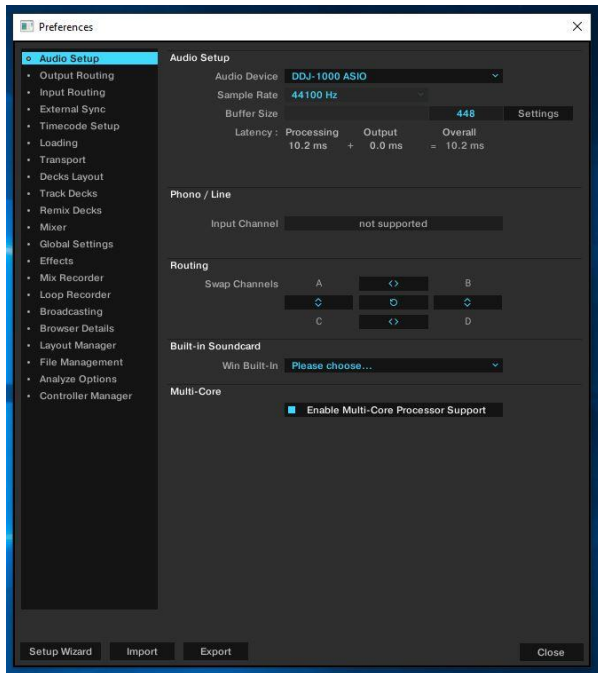(Select SX3 device here)   (Select SX3 device here)

SET PREVIEW TO
SAME VALUES
AS DECK 4!

ANNEX: DDJ-SX2

(Select SX2 device here)   (Put SX2 channels here)