Professor's Expansion Pack

a sound enhancing expansion pack for the Roland TD-20 Drum Module

Owner's Manual

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Thank you for purchasing V Expressions LTD's **Professor's Expansion Pack**!

By popular demand of V Expressions LTD customers, we proudly announce the latest and most anticipated addition to our expansion library, the **Professor's Pack!** The **Professor's Pack** is a collection of **incredibly modeled kits based on the career and discography of one of the world's most famous and greatest drummers of all-time – Neil Peart**!

This expansion is filled with **modeled kits reflecting the sounds of Neil and Rush's greatest recordings throughout the past 3 decades** as best as the Roland TD-20 can accomplish!

The expansion **focuses on the replication of sounds based on the original recordings**. Noticeably, **the sounds will progress through the typically drier sounds of the 70's and 80's recordings, evolving into the bright, lively and powerful sounds of the latest recordings in recent years**.

The **Professor's Pack** is **full of great surprises** and is **designed with EVERY drummer in mind; especially "expanded" drummers**!

The expansion's kits **reflect the sounds of 20 releases from Neil's greatest recordings**. These kits are modeled to replicate the actual recordings throughout Rush's history from which they are similarly titled. These kits **reflect the great sounds of Tama, Ludwig, Slingerland and DW drums, Zildjian and Sabian cymbals and a surplus of special effects, cross-sticks and additional percussive sounds** the professor regularly used throughout the past 30+ years.

While this pack is designed with the "expanded" drummer in mind, **all drummers can take advantage of the additional kits**! We've included **kits with the professor's extended instruments including additional toms, percussion and effects for you to utilize at additional modules, inputs and split triggers**! All drummers can **copy these extra components into new and existing kits to create the custom kits of their dreams**!

Many effect, percussion, cross-stick and additional sounds can be found on the rims of Toms 1, 2, 3 and 4. While rims cannot typically be copied in the module, **we suggest** VDrumLib **as the sole editor for moving rim-related sounds with ease**. In the normal case of copying rims, the data can only be copied by hand without such a great application as VDrumLib.

Cross-sticks are designed to be played with the butt of your stick on the snare rim while striking the rim of tom 1 with the shoulder. This will result in the intended cross-stick sound with a slight snare ambience from the snare rim. **All kits feature Neil's signature bass drums, snares crashes, rides, hi-hats and china sounds throughout the years**. The toms in the first collection of kits are the "base" kits with strategic percussive additions to the rims. (based on modeled song) These kits are designed for the "plug n' play" v-drummer with the maximum default kit layout. The second section of kits brings additional toms and instruments to the expansion and is designed to be mixed with their counterparts in the first collection.

Regardless of importing kits individually or as an entire backup, the expansion was designed with the group faders at 75% for optimal volume modeling. Setting all group faders at 75% when loading your backup will yield the best results.

Don't forget to choose your correct pad setup in your module's global setup and recalibrate your hi-hat!

Thank you once again for purchasing the **Professor's Expansion Pack** from V Expressions LTD. We hope you enjoy it!

(referenced from our Studio Kits 2 manual)

A word about ambience effects…

Ambience effects have been added to achieve a "produced" sound and best reflect the original recordings. If you desire warmer, raw sounds to send through Master Outs or the S/PDIF digital out, simply adjust the ambience and/or effect overall volume to your desired level. Turning the ambience effects off completely will send a dry mix through the Master Outs or the S/PDIF digital out.

Setup A: "General Recording and Output for Live Performance"
The generic setup is intended for those individuals who would like to provide dry signals for post production via the recording or live console. The Master Outs or the S/PDIF digital out can be sent to the engineer in parallel with the dry outs as a guide for your desired sound. The engineer may choose to mix the dry signals with the Master Mix for a warm and full mix. Alternatively, ambience and effects can be turned off to provide your engineer with a "spare" mix track for simulating post-mix ambience or room mics.

Setup B: "Advanced Recording and Live Performance Techniques"
The "New York Compression Trick" refers to a technique used by professional recording studio engineers for the last twenty years. The result is a very full, warm and explosive drum kit. The secret to this technique is simple and can be easily achieved by the TD-20 module and your outboard gear.

Send the Master Outs or the S/PDIF digital out as an overall mix. This mix can be further produced at the recording or live console to reach the desired sound. (it is advisable that you get the best final mix possible from the module) If a desired mix cannot be achieved, the drys will have to be bussed by the engineer to duplicate tracks. After light, continued production is finalized at the console, slowly bring original snare, toms and/or bass tracks up behind the mix until the raw attack warms the track to the desired mix.

Alternatively, some refer to the "New York Compression Trick" as "Parallel Compressions". Effectively, this means you would do the opposite by mixing in "low level" or "heavy" compression passed tracks behind the produced, rather than raw, tracks.

In conclusion, this technique can really bring new life to v-drums! Try a few different things and watch your new kits explode with life!

Setup Conclusions:
These are only a couple of tricks to achieving incredible sounds with your TD-20 and **V Expressions LTD** expansion packs. Never be afraid to experiment!

Standard Kits:
All standard kits include 2 main splashes and Wuhan china.
All extended (EXT) kits include kits below with extended listed instruments as noted.

Number	Modeled to sound like…	Notes:
1.	Rush: **Working Man** *(John Rutsey)*	*Standard Kit Only*
2.	Fly by Night: **Fly by Night**	*Standard Kit Only*
3.	2112: **2112**	*Standard Kit Only*
4.	2112: **2112 EXT**	*Extended Concert Toms (TR1-4)*
5.	A Farewell to Kings: **Closer to the Heart**	*Tubular Chimes*
6.	A Farewell to Kings: **Closer EXT**	*Introduction Concert Bells (T/TR1-4)*
7.	Hemispheres: **The Trees**	*Bridge Wood Blocks (TR1-4) & Windchimes (A4)*
8.	Hemispheres: **The EXT**	*Extended Wood Blocks (T/TR1-4)*
9.	Permanent Waves: **Jacob's Ladder**	*Wood Blocks & Windchimes (A4)*
10.	Permanent Waves: **Jacob EXT**	*Extended Toms (T1 & 2 only)*
11.	Permanent Waves: **Freewill**	*Wood Blocks & Windchimes (A4)*
12.	Moving Pictures: **Tom Sawyer**	*Standard Kit Only*
13.	Moving Pictures: **Tom EXT**	*Extended Concert Toms (T1-4)*
14.	Signals: **New World Man**	*Timbale (TR1)*
15.	Grace Under Pressure: **Kid's Gloves**	*X-Stick (TR1) & Tambourine (TR2)*
16.	Power Windows: **Manhattan Project**	*X-Stick (TR1), Clap (TR2) & FX Drum (TR3)*
17.	Hold Your Fire: **Time Stands Still**	*Block (TR1), Cowbell (TR2) & Timbale (TR3)*
18.	Presto: **Show, Don't Tell**	*Standard Kit Only*
19.	Roll the Bones: **Roll the Bones**	*Standard Kit Only*
20.	Roll the Bones: **Roll EXT**	*X-Stick (TR1), FX Drum (TR2) & Stab (TR3)*
21.	Counterparts: **Double Agent**	*X-Stick (TR1) & Tambourine (TR2)*
22.	Test for Echo: **Limbo**	*Standard Kit Only*
23.	Test for Echo: **Limbo EXT**	*Extended Concert Toms (T1-4)*
24.	Vapor Trails: **Ghost Rider**	*Standard Kit Only*
25.	Rush in Rio: **Spirit of Radio**	*X-Stick (TR1)*
26.	Rush in Rio: **Rio EXT**	*Extended Concert Toms (T1-4)*
27.	Snakes and Arrows: **Far Cry**	*Standard Kit Only*
28.	R30: **Limelight**	*X-Stick (TR1) & Cowbell (TR2)*
29.	R30: **Limelight EXT**	*Extended Concert Toms (T1-4)*

Kits #30 through #44 are blank "user kit" slots for merging and building custom kits.

Bonus Kits:
"Friends of the Professor"

Number	Modeled to sound like…	Notes:
45.	John Bonham	*Classic drum tracks only sound*
46.	Jeff Porcaro	*VEX "Studio" remix*
47.	Vinnie Colaiuta	*VEX "Studio" remix*
48.	Tim Alexander	*VEX "Studio" remix*
49.	Mike Portnoy (1992)	*Classic Images & Words sound*
50.	Mike Portnoy (2006)	*Latest MP studio sound*

V Expressions Limited: TD-20 Expansion Pack Instructions

All user kits in your TD-20 (flash memory) **will be erased during a load of any backup file from a CompactFlash card**. The factory reset information is not disturbed and the original version of the TD-20 can be reset at any time to return to your default purchased starting point.

We highly recommend backing up your current TD-20 memory to save any personal previous changes before loading any expansion packs from V Expressions LTD. You will also be able to load individual sets as described in Section IV.

Please take a moment to read all of our procedures below before attempting them.

If you have questions before attempting any of the procedures below, please refer to your TD-20 owner's manual or email V Expressions LTD from our website at www.vexpressionsltd.com.

Section I: Formatting a new CompactFlash card

Step 1: Insert a CompactFlash card into the card slot on the TD-20's front panel.
Step 2: Press [CARD]. The CompactFlash indicator light, and the "CARD MENU" screen appears.
Step 3: Press [F4 (FORMAT)]. The "CARD FORMAT" screen appears.
Step 4: Press [F5 (EXECUTE)]. The confirmation screen appears. *To cancel, press [F1 (CANCEL)].*
Step 5: Press [F5 (EXECUTE)] again to start formatting.

Section II: Saving a Backup of the TD-20

Step 1: Insert a TD-20 formatted CompactFlash card into the card slot on the front panel.
Step 2: Press [CARD]. The "CARD MENU" screen appears.
Step 3: Press [F1 (SAVE)]. The "CARD SAVE" screen appears.
Step 4: Use [+/-] or [VALUE] to select a backup to which you want to save the data. *You can select an empty backup area with the lowest number by pressing [F4 (NEW)].*
Step 5: Press [F5 (SAVE)]. The confirmation screen appears. *To cancel, press [F1 CANCEL)].*
Step 6: If you want to change the name of the backup area, press [F4 (NAME)].
Step 7: Press [F5 (EXECUTE)] to save the data.

Section III: Loading Expansions to a CompactFlash card from a computer

Preparation: You must have a CompactFlash card reader connected to your computer. It can usually be found as an additional drive in "My Computer". **Important!** If your CompactFlash card contains previous backups, rename the newly supplied backup file(s) to a different back up number. (ie: TD20BK**05**.TD0 to TD20BK**08**.TD0) *The only numbers the TD-20 can read are 01-08.*

Step 1: Insert a TD-20 formatted CompactFlash card into a card reader connected to the computer.
Step 2: Extract all files from the supplied expansion pack zip file to a folder on your computer.
Step 3: Copy the expansion "TD0" files to the **Roland/TD/** folder found on your CompactFlash card.

Section IV: Loading Backup Kits from a CompactFlash card

Hint: This procedure **will not** preserve trigger settings you may already have changed in your TD-20 module and/or setup. **By loading an entire backup file, you may need to adjust trigger types and calibrations to achieve the best volumes, calibration and sound the programmer intended.**

Step 1: Insert the CompactFlash card into the CompactFlash card slot on the TD-20's front panel.
Step 2: Press [CARD]. The CompactFlash indicator light and the "CARD MENU" screen appears.
Step 3: Press [F2 (LOAD)]. The "CARD LOAD" screen appears.
Step 4: Use [+/-] or [VALUE] to select the backup area containing the data you want to load.
Step 5: Press [F5 (LOAD)]. The confirmation screen appears. *To cancel, press [F1 (CANCEL)].*
Step 6: Press [F5 (EXECUTE)] to load the data.

Section V: Loading Individual Kits from a CompactFlash card

Hint: This procedure is **a great way to preserve** trigger settings you may already have changed in your TD-20 module and/or setup. **By loading individual kits, your trigger types and calibrations will be reserved.** *Some minor adjustments may be needed to accommodate your playing style.*

Step 1: Insert the CompactFlash card and Press [COPY]. The "COPY" screen appears.
Step 2: Press [F1 (KIT)] to select drum kit.
Step 3: Use [CURSOR], [+/-], or [VALUE] to select the copy-source and the copy-destination.
Step 4: Press [F5 (COPY)]. The previous content of the destination is overwritten by the new content of the source. The confirmation screen appears. *To cancel, press [F1 (EXIT)].*
Step 5: Press [F5 (EXECUTE)] to carry out the procedure.

Professor's Pack Kit Copy/Building Mini-Tutorials

The **Professor's Pack Expansion Pack** has been designed with custom kit building in mind. Have a particular snare you like, but want it with another set? Easy! Just copy the kit with the most liked components to a User patch and then copy in the remaining desired components. Please refer to the following mini-tutorials for help in achieving your desired custom kit.

Building your own *custom kit* from multiple kit destinations:

Part 1: *(starting with the main base kit)*
> **Step 1:** Press [COPY].
> **Step 2:** Press [F1 (KIT)] to select drum kit.
> **Step 3:** Use [CURSOR], [+/-], or [VALUE] to select the copy-source and the copy-destination.
> **Step 4:** Press [F5 (COPY)].
> **Step 5:** Press [F5 (EXECUTE)] to carry out the procedure or [F1 (EXIT)] to cancel.

Part 2: *(adding the desired components to the base kit)*
> **Step 1:** Press [COPY].
> **Step 2:** Press [F2 (INST)] to select a component from a donor kit.
> **Step 3:** Use [CURSOR], [+/-], or [VALUE] to select the copy-source-kit and the copy-destination-kit.
> **Step 4:** Move to the right and strike the pad to assign the copy-source-pad and copy-destination-pad.
> **Step 5:** Press [F5 (COPY)].
> **Step 5:** Press [F5 (EXECUTE)] to carry out the procedure or [F1 (EXIT)] to cancel.

Building your own *custom expansion* from multiple expansions or backups:

Note: You may keep up to 8 backups on a 16-512mb CF card. It is recommended that you have one blank slot before attempting this procedure.

Here are the instructions from both our manuals and the Roland manuals:

Step 1: Insert the CompactFlash card and Press [COPY].
Step 2: Press [F1 (KIT)] to select drum kit.
Step 3: Use [CURSOR], [+/-], or [VALUE] to select the copy-source and the copy-destination.

*Note: Here, you will **scroll to the right until the selected area reads "card".** Next, cursor to the right and up with the arrow buttons. Now, scroll to **find the expansion or backup where you want to copy from**. Cursor down to select your source kit and then choose the destination kit.*

Step 4: Press [F5 (COPY)]. The previous content of the destination is overwritten by the new content of the source kit. The confirmation screen will appear.
Step 5: Press [F5 (EXECUTE)] to carry out the procedure. *(to cancel, press [F1 (EXIT)]).*

Conclusion: Our recommendation is to start with the expansion loaded that you'll use the most kits from. Copy in the kits you want from the other expansions on your card(s) to the kits you would like to overwrite. When you are done, save this new expansion into a blank backup so you'll always have it.

NEW in the Professor's Pack!

Have a favorite mastered sound you like and want to use it with different drums from another kits? Easy! Copy the kit that has the overall sound you desire to a new blank spot and then copy in your favorite components from other kits using the instructions in "**Part 2"** above!

Symptom: The module does not recognize the CF card.
Remedy: New CF cards must be formatted by the module.

Symptom: The module does not recognize the CF card.
Remedy: The module can only read CF cards up to 512mb in size. If you are using a larger card, the module may not recognize it due to this limitation.

Symptom: The module says there is no data.
Remedy: The module cannot read "zip" files. Extract your expansion files from the original downloaded zip file and continue with the directions in Section 3, Step 2. For more help with extracting zip files, please search the web for a free zip extracting tool or read your operating system's help file.

Symptom: I've extracted the zipped files, but the module says there is no data.
Remedy: The "td0" file **must be placed INSIDE the TD folder** found on your module-formatted CF card. If the td0 file is not found inside the TD folder, the module will not recognize it.

Symptom: Copied instruments do not retain effect settings or exact sound.
Remedy: Unfortunately, the module is incapable of bringing all the settings you may hear from one kit's instrument into another kit. The module uses the kit's effect settings as the master. To achieve the exact sound from one kit to another, the user must input the effect settings for that instrument by hand. Write the effect settings for the instrument you are copying to input them by hand in the new location. Roland will most likely remedy this procedure in the upcoming expansion card.

Symptom: I can't copy a kit I like into the current expansion.
Remedy: This is a case of not understanding Step 3 of Section 5. With the CF card loaded, select [COPY] then [F1 (KIT)]. Scroll to the right until the selected area reads "card". Cursor to the right and up with the arrow buttons. Scroll to find the expansion or backup where you want to copy from. Cursor down to select your copy-source kit and the copy-destination kit.

If you have questions before attempting any of the above procedures, please refer to your TD-20 owner's manual or email V Expressions LTD from our website at www.vexpressionsltd.com.

Programmer Contact Information:

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