V Expressions Ltd

MAXX Expansion Pack

a sound enhancing expansion pack for the Roland TD-27 Drum Module

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Introduction

Thank you for purchasing V Expressions Ltd's **MAXX for TD-27**!

This expansion pack for the TD-27 provides 35 unique and specialized stereo drum kit selections.

The pack features 29 well designed popular acoustic kit models and brands spanning many decades. Great for performing and recording, you will find kits for Reggaeton, Rock, RnB, Pop, Metal, Country, Funk, Jazz and Fusion, not to mention many other uses. Also included are 5 well designed Electronic/EDM inspired creations (including a very true to life early 80's Simmons kit), and a percussion kit. The acoustic drum kits in this pack are programmed and created with the feel of direct mic'ing along with added ambience, eq, and compression. Most of the acoustic models feature medium to lower ambience in stage, studio, and room environments.

For all experience levels and functionality, this pack will deliver a great enhancement to the TD-27. It supplies pre-programmed support of Crash Two with respect to the kit and other cymbals in the model. All three AUX triggers have been programmed and optimized for 2 setups. Setup 1 is a 4-tom setup (T1/2/3/4) with two additional cymbals. Setup 2 is a 5-tom setup (Hi Tom/T1/2/3/4) with an additional cymbal. Some models may differ.

The **MAXX** expansion pack has been ear-created on the TD-27 from scratch on a highly expressive platform.

NEW! Exclusively created V Expressions Ltd sample .WAV data has been utilized. These samples have been used in the sub layer instrument setting to supply the kits with unique sounds without affecting performance, dynamic feel, and adaptive pad response.

MAXX Kit Listing

	(5 Tom Setup)	(DEFAULT 4 Tom Setup)
66. Rogers Maple	Individual Kit #1	Individual Kit #36
67. GMS Grand	Individual Kit #2	Individual Kit #37
68. Reggaeton	Individual Kit #3	Individual Kit #38
69. Dry Acoustic	Individual Kit #4	Individual Kit #39
70. Stainless Ludwig 77	Individual Kit #5	Individual Kit #40
71. Noble & Cooley Horizon Early	Individual Kit #6	Individual Kit #41
72. Rosewood Sonor 1975	Individual Kit #7	Individual Kit #42
73. Tama Superstar	Individual Kit #8	Individual Kit #43
74. Sonor SQ2	Individual Kit #9	Individual Kit #44
75. DW Studio Session	Individual Kit #10	Individual Kit #45
76. MeTaLhEaD 80's Tama	Individual Kit #11	Individual Kit #46
77. ASBA Stainless Kit 1976 France	Individual Kit #12	Individual Kit #47
78. Funky Rogers	Individual Kit #13	Individual Kit #48
79. Over the Pond	Individual Kit #14	Individual Kit #49
80. Slingerland 1965 Modern Jazz Outfit	Individual Kit #15	Individual Kit #50
81. Brushes Paiste 602 Ride	Individual Kit #16	Individual Kit #51
82. Heads 2 Tite Gretsch Nitro	Individual Kit #17	Individual Kit #52
83. The Other Bands Drum Set	Individual Kit #18	Individual Kit #53
84. Yamaha Turbo Touring kit	Individual Kit #19	Individual Kit #54
85. Pioneer Oak drum kit	Individual Kit #20	Individual Kit #55
86. Fibes open Paiste 2002 flat ride	Individual Kit #21	Individual Kit #56
87. Funk Apostles	Individual Kit #22	Individual Kit #57
88. Premier GenX	Individual Kit #23	Individual Kit #58
89. PopTite	Individual Kit #24	Individual Kit #59
90. It just Works 4 Everything	Individual Kit #25	Individual Kit #60
91. Tama BBinga wide open	Individual Kit #26	Individual Kit #61
92. Masterworks Processed	Individual Kit #27	Individual Kit #62
93. Mr. Leedy's Jam	Individual Kit #28	Individual Kit #63
94. Junglaya Percussion Kit	Individual Kit #29	Individual Kit #64
95. Spaun EDM	Individual Kit #30	Individual Kit #65
96. 90's Electronics	Individual Kit #31	Individual Kit #66
97. LoFi Kit	Individual Kit #32	Individual Kit #67
98. EDM OL SKOOL	Individual Kit #33	Individual Kit #68
99. EDM NU SKOOL	Individual Kit #34	Individual Kit #69
100. Simmons	Individual Kit #35	Individual Kit #70

Getting Started

To increase customer understanding and awareness, we proudly offer this step-by-step instruction manual to ensure quick and smooth implementation with our expansions.

Comprised of both Roland's and our very own streamlined step-by-step instructions, this helpful document will answer all your questions and get you on your way to playing your new kits.

IMPORTANT - READ BEFORE CONTINUING!!

Accidents can always happen!

We highly recommend backing up your current module to save personal modifications before loading any expansion from V Expressions Ltd. It is important you follow our steps in this guide to achieve the best results during the processes of module back-up, file preparation, and loading of your new V Expressions Ltd expansion.

> NOTE: To preserve your pad setup, user sample list, 28 channel driver input settings including all local/vendor custom settings for DAW use, and any custom kits you've created –   Make a backup of your setup configuration to the SD card.

Custom user kits **WILL BE ERASED during a load of your expansion backup file**. However, your module's **factory reset data is never touched**, and this original factory state of your module can always be reset at any time. You can load **MAXX** as a Backup or individually load each kit one by one.

Please take a moment to read all procedures below before attempting them. If you have questions before attempting any of the procedures below, please refer to your Roland TD-27 Reference or Quick Guide manual, or feel free to email **V Expressions Ltd** from the appropriate link on our website at www.vexpressionsltd.com

When you are ready to begin, start with Section I below.

Section I: Apply Latest Updates

FOR YOUR INSTALLATION AND EXPANSION TO WORK PROPERLY, YOUR MODULE MUST HAVE THE LATEST FIRMWARE UPDATE(S) IMPLEMENTED BEFORE YOU BEGIN!

Version 2 is available on Roland Cloud (late 2022)

Section II: Formatting your SD Card in the TD-27   *See page 24 in your TD-27 manual*

Skip to Section III if you have already used SD Card with your module!

If you have never used your SD Card with your module, and have no data on it, you may format the stick in the module to create your Roland folder structure.

IMPORTANT! Any data on the SD Card WILL BE deleted by formatting the stick in the module!

    Step 1: Carefully insert your SD Card into the TD-27 module.
    Step 2: Press the **SYSTEM** Button.
    Step 3: Scroll to SD Card and Press Enter
    Step 4: Use the dial to select SD Card Format and Press FORMAT
    Step 5: Arrow Right and Press **ENTER** (OK) to confirm and execute the format.

Note: Press Cancel if you do not wish to Format your SD Card.

Section III: Backing Up the TD-27   *See page 25 in your TD-27 manual*

Make a backup of your module before you continue!

    Step 1: With SD Card in the TD-27 module, Press the **SYSTEM** button.
    Step 2: Press SD Card, then **ENTER**.
    Step 3: Use the dial to choose Save, then **ENTER**.
    Step 4: Use the dial and arrow buttons to make backup settings – choose a backup other than Bank 3 or 4.
    Step 5: Press **SAVE** F5 *(Press F4 at this time if you want to NAME backup once done Press EXIT)*
    Step 6: Press **EXECUTE**, Arrow Right and then Press **ENTER**.

Note: Press Cancel at any time if you do not wish to Save a backup to your SD Card.

IMPORTANT: Once saved, remove your SD Card from TD-27 and insert into your computer/laptop. Copy the Roland folder to your Desktop. Do not move it there, only copy it, so it leaves the Roland folder on the SD Card as well. This will preserve a copy of your module on your computer before any V Expressions changes have taken place.

Section III: Preparing Your Expansion

Memory Loading Requirements: Minimum 64mb SD CARD and a computer/laptop with an SD Card reader.

Backup File Information

- TWO (2) backup file (expansions) available for download:

   o **BKUP-003.TD0:** This is **Bank 3**, and will read as: 27**MAXXCY   (Most users will select this file)**
- **Use Bank 3 file as The Default setup (Tom 4 setup with 2 Aux Cymbals : AUX 1 and 2: Cymbals, Aux 3: Tom 4)**

   o **BKUP-004.TD0:** This is **Bank4**, and will read as: 27**MAXXT2**
- Use Bank 4 file for advanced setups(5 Toms with 1 Aux Cymbal : AUX 1: Cymbal, AUX 2: Hi Tom, Aux 3: Tom 4)

- Individual kit files are included
- **MAXX** Kits 66-100 are optimized for stereo headphone use.
- Kit 66 appears first upon loading.
- Digital Pads, Crash 2 (CY-12c), and all Aux triggers are supported.
- Kits 1-64 are preserved as Original Stock Roland Default Sets you received with a TD-27 Version 1.10.
- **MAXX** Drum kits will load in as Kits # 66-100.
- All **MAXX** Drum kits are supplied with the Snare Crosstick active using the PD140-DS.
- To best optimize your trigger performance, please read the Performance Settings Guide on pages xi / xii of this manual

Sample Data Information

- **MAXX** is supplied with **custom recorded V Expressions Ltd sample .wav files: 44.1 / 24BIT**
- These samples are embedded in the backup and kit files you downloaded and will load automatically.
- Avoid: Renaming or Optimizing the **MAXX** Sample Data after it loads. Doing so may harm the model.
- **MAXX** requires **24 %** of the Sampling Memory to load correctly.
  Make sure you have enough space if you are already using a lot of samples.
  Also: It is recommended load kits individually to avoid losing your current sample data list
- See list below for descriptions:

Technical sample data recording chain information simplified:
Previously recorded samples have been utilized

For Samples New to **MAXX** pack only
SOURCE→ Neumann U67 and Schoeps CM6MK21 SP →Mercury M72 and Millenia HV3 A/B→BURL ADC→
PT12 HDX MAC 192Khz→0.2 db OUTPUT PT12 HDX MAC WAV 44.1 / 24BIT

Sample List/Descriptions: (in no particular order)

1. 2214OakDB   22X14 Sonor Oak Bass Drum
2. 2614RogBD   26X14 Rogers Bass Drum Ambient
3. 2614DRogBD   26X14 Rogers Bass Drum w/ additional AKG D30 Internal mic
4. 60S14x5   60's 14X5 Sonor Snare
5. 60SR14x5   60's 14X5 Rimshot
6. VintCbel   Early 70's 7" Cowbell Bronze
7. BradyS14x5   Brady Snare 14X5.5 1990 Jarrah
8. BradySR14X5   Brady Snare Rim shot
9. GenSnr13   Premier Genista 13X4 Birch Snare Drum 1994
10. GMSGS2216BD   GMS 22X16 Bass Drum Grand Session 1996
11. GenT1   Premier Genista 12x8 tom 1994 Finnish Birch
12. GenT2   Premier Genista 13X9 tom
13. GenT3   Premier Genista 14X14 Floor Tom
14. GenT4   Premier Genista 16X16 Floor Tom
15. JoyS14   Joyful Noise 14X6.5 Brass Snare 2012
16. JoySR14   Joyful Noise Rim Shot
17. MeinlCb6   Meinl 6" Steel Cowbell
18. MeinlCb8   Meinl 8" Bronze Cowbell
19. Octo1   Tama Octoban Upper Tier Hi pitch 16
20. Octo2   Tama Octoban Upper Tier Med-Hi pitch 18
21. Octo3   Tama Octoban Lower Tier Med Low pitch 20
22. Octo4   Tama Octoban Lower Tier Lowest pitch 22
23. Rose1   100 Anniv Sonor Rosewood Tom 10X9 with Hydraulic Hds 1975
24. Rose2   100 Anniv Sonor Rosewood Tom 12X10 with Hydraulic Hds 1975
25. Rose3   100 Anniv Sonor Rosewood Floor Tom 15X15 with Hydraulic Hds 1975
26. Rose4   100 Anniv Sonor Rosewood Floor Tom 16X16 with Hydraulic Hds 1975
27. Roto 6   Remo Roto 6" Tom 1978 Vintage
28. Roto 8   Remo Roto 8" Tom 1978 Vintage
29. Roto 10   Remo Roto 10" Tom 1978 Vintage
30. BlkBtySnr   Ludwig Black Beauty snare 14X5 1975
31. BlkBtyRim   Ludwig Black Beauty Rim shot
32. SnrOFFHi   Black Beauty Snares off Hi pitch
33. SnrOFFMed   Black Beauty Snares off Medium pitch
34. SnrOFFLo   Black Beauty Snares off Low pitch
35. STS1   Imperialstar VerbTrail 1983
36. SonorPhonic 24X   Sonor Phonic Beech Bass Drum 24X14 1979
37. Dunnsnr   Dunnett Snare 15X6.5 steel
38. Dunnrim   Dunnett Snare RimShot
39. Snr#   Pearl Freefloater 14x4
40. ZildjianA21RD   ZildjianA 21" Ride
41. HorstProc   Sonor Horstlink Snare with processing 1980's

42. Timbalebrass   Rimshot LP Timbale from 1980s vintage
43. 2218MPLDW   22X18 DW Collector Bass Drum Satin Oil 1995
44. FBR8Hi   Fibes 8" Fiberglass Drum 1972 Martin Era Forte
45. FBR10T1   Fibes 10" Fiberglass Drum
46. FBR12T2   Fibes 12" Fiberglass Drum
47. FBR13T3   Fibes 13" Fiberglass Drum
48. FBR14T4   Fibes 14" Fiberglass Drum
49. FBR16T5   Fibes 16" Fiberglass Floor Tom
50. FBR18T6   Fibes 18" Fiberglass Floor Tom
51. RVSSNR12Bit   Reverse Snare 12 Bit from Akai S900
52. RVSCR12Bit   Reverse Crash 12 bit from Akai S900
53. RVSBD12Bit   Reverse BD 12 Bit from Akai S900
54. RVSFLTOM12Bit   Reverse Floor Tom 12 bit from Akai S900
55. 602rivet   Paiste Formula 602 Ride light with Rivet
56. AVHSNR84   Alex Van Halen Snare 1984
57. COBDYNA66   1966 Rogers Dynasonic chrome over brass 14X5
58. MAHG T1   NC Horizon Tom 12X10 1987
59. MAHGT2   NC Horizon Tom 13X11 1987
60. MAHGT3   NC Horizon FL TOM 14X14 1987
61. MAHGT4   NC Horizon FL TOM 16X16 1987
62. FLRD2002   Paiste 2002 Flat RD 80's
63. OAKT1BZ   Oak Tom 12X9 with Snr buzz - Yamaha
64. OAKT2BZ   Oak Tom 13X9 with Snr buzz - Yamaha
65. OAKT3BZ   Oak Tom 14X11 with Snr buzz - Yamaha
66. OAKT4BZ   Oak Floor Tom 16X16 with Snr buzz – Yamaha
67. DCareySNR1   Danny Carey Snare 1996
68. VColiutaSNR   Vinny Colaiuta Snare 2000's
69. STXCLK   Stick Click
70. SABAAX21RD   Sabian AAX Metal RD 21"
71. SABAAX21BELL   Sabian AAX Metal RD 21" Bell
72. ZILD20ROKRD   Zildjian A 20" Rock Ride 1980s

Remember! To properly load the files from V Expressions Ltd successfully to your TD-27 Module, your SD Card **MUST** be properly structured.

If you have never used your SD Card, you must format your new SD Card in the TD-27. This will create the proper file system.

If you have previously made a backup of your module, double check the folders are available on your SD Card. (see your download file structure for an example)

We recommend Sony and SanDisk SD CARDS.

Copying your EXPANSION FILE to your SD Card.

> **Step 1:** Carefully insert your SD CARD into your computer's SD CARD Reader.
> **Step 2:** From your Desktop, locate the files: BKUP-003.TD0 / BKUP-004.TD0
> **Step 3:** Open your SD Card.
> **Step 4:** Open the Roland Folder.
> **Step 5:** Open the TD-27 Folder.
> **Step 6:** Open the Backup Folder. (*Roland→TD-27→Backup*)
> **Step 7:** Copy or Drag the backup TD0 files INTO the Backup folder.
> **Step 8:** Once verified the file is INSIDE THE BACKUP FOLDER, you may close & eject the SD Card.

IMPORTANT – PLEASE READ.

This is the easiest and fasted loading method. Use this method of loading kits (backup) if you don't have any custom trigger settings or daw settings integrated into the module. VAD users that are using a default trigger bank setup you may use this method, but will need to reload your bank settings. Customized v drum setups – Skip to option B below.

Note: Do not rename the Backup files. They must remain in the original TD0 format.
Before loading, please read the "My Pad and Trigger Settings" section on page x of this manual.

Reminder! Loading the entire backup will overwrite your kits, current sample list, and pad settings.
Remember to Backup your module…

> **Option A: Loading your kits via the Backup TD0**
>
> **Step 1:** Carefully insert your SD CARD into the TD-27 module.
> **Step 2:** Press **SYSTEM**, and then scroll to **SD CARD**.
> **Step 3:** Select **Load** and Press **ENTER**.
> **Step 4:** Use up/down arrows and dial to specify settings – User Sample is checked - ☑ (it will be automatically for Bank 3)
> **Step 5:** Use the turn dial to select **Bank 3 (named: 27MAXXCY). This is the default file to load.**
> ***NOTE:*** *If you are not using any AUX trigger inputs yet or the Roland Digital pads: you can continue loading without any pack issues*
> **Step 6:** Press **LOAD** (F3).
> **Step 7:** Arrow Right then Press **ENTER** to load backup.
>
> If it says "No Backup Data" – You need to scroll the dial and select Bank 3
> Repeat Step 6/7   *(or) if not working: the pack on SD card is not properly loaded – read Section III and perform steps.*

If Screen says: "Processing"   its working! This will take about 3 Minutes as all the sample data loads in.

Note: If you wish to load your entire backup expansion with the 5 Tom advanced setup:

Using the above steps – on Step 5: Use the turn dial to select **Bank 4 (named: 27MAXXT2)**

Follow all remaining steps. *Continued on next page…*

Once the load completes: You are NOT done!

Note: Perform these following steps to align the pack properly to your kit!

Step 8: Recalibrate your VH10 or 11/12/13/14D Hi Hat – if you have a floor pedal with pad setup then skip this.
Step 9: Make sure your pad settings match your kit's pad types:

 Press SYSTEM, arrow to TRIGGER, arrow to BANK and Press ENTER. Check and correct all your pad settings.
-OR-
 Select your corresponding BANK Set by: Arrowing up: To BANK

Bank 1 is a Standard TD-27 KV Setup with the Digital Pads
Bank 2 is a Standard TD-27 VAD 503/506 Setup with the Digital Pads
You can custom create your set on any of the Banks

Step 10: Re-save a copy of **MAXX** to your SD Card with your corrected pad settings.

OR –

Option B: Loading your kits individually:

IMPORTANT – PLEASE READ. This loading procedure is recommended for most advanced users.

Use this method of loading the kits:

1) **Most VAD users / acoustic & third-party trigger users**
2) **When custom trigger settings have been created**
3) **When you are using the USB output to connect to DAW using local/vendor settings and drivers**
4) **When you have a fully custom trigger setup/pad configuration**

Kit files are included with the download.
If for some reason you didn't get these files at time of download: Contact a V Expressions LTD rep to get these files.
To Prepare -

1. For detailed pictures and loading instructions: Download and print page 49 from the TD-27 Reference manual:
   https://static.roland.com/assets/media/pdf/TD-27_Reference_eng01_W.pdf

2. Carefully insert your SD card into your computer. Find the Kit folder that was included with your download and copy all the contents to the Kit folder on your SD Card.   (Roland→TD-27→**Kit**)

To load kits individually: Carefully insert your SD Card into the TD-27

1. Press System
2. Scroll to SD CARD
3. Scroll to "1 Kit Load"
4. Use Cursor and Dial to make load selections
5. Once Selected, Press LOAD F5
6. Arrow Right and Select OK, then Press ENTER

Repeat Steps 1-6 until all kits you want are completed

MAXX Kits File Description: See page iii of this manual for details

Kit folder supplied contains Kits 1-35   MAXX 5 Tom Setup
Kit folder supplied contains Kits 36-70   MAXX 4 Tom Setup (DEFAULT)

Pad Configuration

The pad assignments and trigger information are set to standard Roland TD-27 KV w/ default trigger settings for the following pads:

Kick: KD-10
Snare: PD-140DS
Tom(s) 1-3:   PDX-100
HH: VH-10
Ride: CY-18DR
CR1/2:   CY-13R / CY-12c
Aux 1-3:   PDX100 / CY12c

If your pad setup is different than the above-mentioned groupings you will need to write down any/all of your pad types and/or custom trigger settings you may have adjusted. The TD-27 does not allow you to load kit and pad settings separately. After loading **MAXX**, you may need to recreate all the custom pad settings you have made (pad type, sensitivity, re-trig, etc.)

This will help align **MAXX** with your kit configuration.

Note: Try not to overdrive your pad triggers. Lower Sensitivity as much as possible without losing all your volume.

My Pad & Trigger Settings

IMPORTANT: If your pad setup is different than the above, you will need to write down any/all of your pad types and/or custom trigger settings you may have adjusted. After loading, you may need to recreate all the custom pad settings you have made. (pad type, sensitivity, re-trig, etc.)

Note: If you are using a standard Roland Default Bank setup ie: Bank 1: TD-27KV or Bank2: 503/506 VAD – then you can skip this step

If you are using custom trigger, older Roland pads, or other hardware: Please take a moment to write down your personal pad and trigger settings before loading your expansion.

IE: Kick drum is a KD-10, Snare is a PD-140 DS, Tom 1 is a PDX-100………………….

Kick: _____

Snare :   _____

Hi Hat: _____

Ride: _____

Tom 1 :   _____

Tom 2:   _____

Tom 3:   _____

Crash 1:   _____

Crash 2:   _____

Aux 1:   _____

Aux 2:   _____

Aux 3:   _____

Performance Settings

Trigger Sensitivities…

Roland Default TD-27 Sensitivities range from 6-9 depending on which pad you strike. The rule is: the higher the sensitivity setting, the louder the sound will be, but you lose dynamics.

By adjusting the Sensitivity and Threshold settings, this will help prevent mis-triggers, velocity issues, and playability concerns you may be having.

To adjust up or down: go to Pad Settings and mess with the Sensitivity values. Remember: Increasing this value increases the sensitivity, so that even soft strikes on the pad are sounded at high volume (less dynamic). Decreasing this value too much reduces sensitivity, so that even strong strikes on the pad are sounded at low volume (less dynamic). Finding the middle road while you play your drum kit is key.

Note: Try not to overdrive the pad sensitivities with your playing. Look at the meter on the module and try to keep the hardest strikes just below max velocity

Trigger Threshold…

Threshold pertains to the minimum sensitivity of the pad. This setting allows a trigger signal to be received only when the pad is hit above a determined force level (a.k.a. velocity). Threshold can be used to generally prevent a pad from mis-triggering because of vibrations from other drums/pads. Check this with your pads and adjust accordingly. Usually a setting ranging from 2 to 6 is acceptable, but if you still find mis-triggering happening, keep adjusting up. This setting works in tandem with the XTALK setting.

Advanced Trigger Settings…

 SCAN TIME: 1.4 is optimal / 2.0 is standard

Strike Force: You may notice that identical hits (velocity) you play may produce sound at different volumes. Adjust the "Scan Time" so your way of hitting/playing can be detected more precisely by the module. While repeatedly hitting the pad at a constant force, gradually raise the Scan Time value from 0ms, until the resulting volume stabilizes at the loudest level. At this setting, try both soft and loud strikes to make sure that the volume changes appropriately. With higher settings, latency increases so set this to the lowest value possible you are comfortable with

RETRIG CANCEL: 1 for Roland Pads is standard – 6 for all types of Roland CY Cymbals is standard.

Correcting mis triggering:

Important when you are especially using acoustic drum triggers or "non" Roland brand triggers.
Many aftermarket triggers produce altered waveforms, which may also cause mis-triggering. This occurs at the decaying edge of the waveform which is annoying when you hear it. Retrig Cancel detects this and prevents it from occurring. To Adjust: while repeatedly striking the pad, raise the "Retrig Cancel" value until retriggering no longer occurs. Although setting this to a high value prevents retriggering, it then becomes easy for sounds to be omitted when the drum is played fast (roll etc.). Set this to the lowest value possible while still ensuring that there is no retriggering.

You can also eliminate this problem of retriggering with the Mask Time setting. Mask Time does not detect trigger signals if they occur within the specified amount of time after the previous trigger signal was received. Retrig Cancel detects the attenuation of the trigger signal level and triggers the sound after internally determining which trigger signals were actually generated when the head was struck, while weeding out the other false trigger signals.

MASK TIME: 4-8ms is optimal / 8-10ms is standard.

Double triggering prevention: When playing a kick trigger – it is quite common for the beater to bounce back and hit the head a second time immediately after the intended strike. Many times, on acoustic drums the beater stays against the head and you do not hear it. Anyway, this bounce back causes a single hit to "double trigger." The Mask Time setting helps to avoid this extra dbl trigger. Once a pad has been hit, any additional trigger signals occurring within the specified "Mask Time" will be ignored.

Adjust the "Mask Time" value while playing the pad.

When using a kick trigger, try to let the beater bounce back and hit the head very quickly, then raise the "Mask Time" value until there is no more sound made by the beater rebound.

XTALK CANCEL: 15-30 is optimal / 30-80 is standard and will depend on your setup.

Do not be afraid to max these values out. When multiple pads/drums/cymbals are attached to the same stand, this Crosstalk Cancel setting prevents vibrations produced by a strike from falsely triggering the other pads/drums/cymbals. For example, if Crash 2 is falsely triggered when you strike TOM 2, you will increase the XTalk Cancel value of Crash 2 until crosstalk no longer occurs.

Note: If the setting is too high, a strike played on Crash 2 **might** be omitted when Tom 2 and Crash 2 are played simultaneously. If you experience this lower both XTALK values on both pads.

Tips & Tricks

Using MAXX with a live PA…

The **MAXX** expansion kits are programmed to define the original source as closely as possible by the TD-27 drum module.

MAXX kits 66-100 are optimized for STEREO/HEADPHONE USE. The settings below will help dial in your drum sound thru speakers.

Room/OverHeads/MFX Reverbs: Avoid the larger hall settings when gigging. Most of time: Less is more. **To adjust: Press "KIT EDIT", then "ROOM – OVERHEADS - MFX"**

PAN: Tom and cymbal separation can also be adjusted using the PAN edit feature to widen or reduce the depth of your instruments without harming the kit model. Keeping a tighter pan will sound better through the PA.

Master EQ: Reduce or Add low/hi eq frequency amounts to even out your kit models on the PA. Use PAD EQ settings to help fine tune the sounds of the kit. Sometimes reducing Bass is the way to add Treble. Subtractive EQing works well with Boomy PA's.

SNARE EQ/VOL: To help your Snare cut through the mix…. Snare depth is at 160-250 HZ, Snare body is at 400-630, Snare clarity is at 2 kHZ. Adjust the EQ frequencies in your snare channel until your Snare is cutting while guitars and vocals are present. Crank the output volume level of the snare in the TD-27 to assist.   **To adjust: Press "KIT EDIT", then "PAD EQ"**

LOW XSTICK / HI HAT PEDAL VOL: To adjust: Press "KIT VOL (F5)", then arrow down ↓ to these settings and adjust as necessary

STEREO L/R OUT: It is highly recommended that the TD-27 be connected to the mixing console in stereo, and then adding / reducing the desired effects to accommodate the current environment. Additionally, **MAXX** has been optimized to source the entire kit from the Master L/R outputs or route the KICK and SNARE out of Direct Outs 1 & 2 and TOMS/CYMBALS/AUX out of the Master L/R Channels. When using the Direct Outs you would want to remove Kick and Snare from the Master L/R outputs to avoid phasing.

** MONO L Output: If in Mono, send your signal via the L MONO OUT. We suggest panning to L30 on all triggers for your particular gig kit. This should greatly enhance your drum set's power in the PA. (kik, snr, toms, hh, rd, cr1, cr2, aux1/2/3). Panning this way should give you much stronger/ punchier audio and help curb the "drown in effects" wash sound.

Contact & Support

If you have questions before attempting any of the procedures above, please refer to your Roland TD-27 owner's manual, or feel free to email **V Expressions Ltd** from the appropriate link on our website at www.vexpressionsltd.com

Contact Information:

Expansion Pack	Programmer	Contact
MAXX TD-27	Chris Blood	email: fiddlebak@gmail.com