V Expressions Ltd

True Acoustic Series

WORSHIP Expansion Pack

a sound enhancing expansion pack for the Roland TD-27 Version 2.0 Drum Module

TD-27 v2

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Thank you for purchasing V Expressions Ltd's **WORSHIP** *for the Version 2.0 - TD-27*!

The **WORSHIP** Kits are optimized with enhancements from the TD-27 Version 2 Firmware.
You must have a Version 2 Firmware TD-27 for Worship to load properly into your module.

This expansion pack for the TD-27 provides specialized stereo drum kit selections optimized for Live use.
V Expressions Ltd True Acoustic Series.

Drum sounds with Deep; FAT Toned Snares and Toms that punch through the mix and carry the low mid-section of today's Worship sound **Worship** contains 17 well designed kits to fit most worship styles.   Using expressive snare layers, this pack features deep toms and deep snares. These drums are sure to fit the needs of your church group / worship band. Created for playability at the TD-27 V2 drum set– the tones and pitches selected should maximize all performances.

Production: The drum sets in this pack are programmed to cut through a mix with the ease of plug n play versatility. Using carefully selected ambience and variable compression, all the kits deliver power and punch. All of the kit models will work for different room environments with varied wattage PA's.

Use for all genres. The collection of snares, toms, and cymbals will inspire any drummer and elevate the performance.

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 a 3 or 4 Tom setup T1/2/3/ (4) with two additional cymbals. You will choose which Backup/ kit files to load. With the 4 Tom setup: Aux 3 is programmed as Tom 4 (a low pitch floor tom).

The **WORSHIP** expansion pack has been ear-created on the TD-27 V2 from scratch on a highly expressive platform.

Kit descriptions:

1.	Rise Up 14X8	Power Heavy Snare	Kit 131
2.	Worship House	Punchy Med Snare	Kit 132
3.	Early Service	Decayed cymbals	Kit 133
4.	Sundays Best	Bright & Airy	Kit 134
5.	Sanctuary	Low Deep Toms	Kit 135
6.	Believe	14X5 Craviotto Snare	Kit 136
7.	Drum Screen	Clear Reflections	Kit 137
8.	Deeply BLESSED	Heavenly Toned	Kit 138
9.	Bright Light	Stave 13X7 Snare	Kit 139
10.	Worship Modern	Cracking 15X12 Snare	Kit 140
11.	Praise Verb	Mid-Range Pushed	Kit 141
12.	Youth Group	Heavy Treble	Kit 142
13.	Old Gospel	Vintage Toms	Kit 143
14.	Big & Wide	Boomy 28" Kick	Kit 144
15.	Awakening	Nickel Brass	Kit 145

Bonus Kits:

16.	Hark Angel	80's Hard Maple	Kit 130
17.	Cathedral	Shine	Kit 146

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.

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 will load **WORSHIP** individually by loading 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 2.00 (0055) or newer firmware is required to load these files.

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, PLEASE format the SD CARD in the module to create your Roland folder structure.

IMPORTANT! Any data on the SD Card WILL BE deleted by formatting the SD CARD 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.

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 an empty backup OTHER THAN 15/16.
> **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: a Standard SD CARD (64Mb-32GB) and a computer/laptop with an SD Card reader.

Backup File Information

- **WORSHIP** Kits are optimized with enhancements from the TD-27 Version 2 Firmware.
- **Backup file: BKUP-015   (WSHP3) 3 tom file.   Loads all the kits at once.**
- **Backup File: BKUP-016   (WSHP4) 4 tom file.   Loads all the kits at once.**
- Kits 1-83 are Factory Default. Kits 84-100 will be WORSHIP.
- 4 Tom Setup: 17 kit files included. **Kit-130 through Kit-146 (Specific 4 Tom folder included)**
- 3 Tom Setup: 17 kit files included. **Kit-130 through Kit-146 (Specific 3 Tom folder included)**
- Loading these kits will not affect your trigger settings
- **All WORSHIP** Kits optimized for stereo headphone monitoring and LIVE use.
- Crash 2 (CY-12c), and all Aux triggers are supported.
- 3 Tom setup: Aux 1 / 2 / 3 are programmed as Cymbals
- 4 Tom Setup: Aux 3 is programmed as Tom 4 (Lowest Pitch)
- Roland Digital Hi Hat, Snare, and Ride were used to create this pack.
- The pack will still perform fine without the digital pads if you don't own/use them.
- All **WORSHIP** 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

Section III: Preparing Your Expansion   *Continued*

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.

> **A)   Copying your EXPANSION Backup FILES 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-015/016.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 file INTO the Backup folder.
Step 8: Once verified the file is INSIDE THE BACKUP FOLDER, you may close & eject the SD Card.

B)   Copying your EXPANSION Kit Files 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 **Kit** folder from your download. You will select either the 3 tom Kit folder, or 4 Tom Kit folder. Each contains**: Kits-130 through 146**.
Step 3: Open your SD Card.
Step 4: Open the Roland Folder.
Step 5: Open the TD-27 Folder.
Step 6: Open the **Kit** Folder. (*Roland→TD-27→Kit*)
Step 7: Copy or Drag the Kit files INTO the kit folder. Renumber duplicates (if any exist).
Step 8: Once verified the kit files are loaded to the **Kit** FOLDER, you may close & eject the SD Card.

Section IV: Loading Your Expansion	*See page 24 in your TD-27 manual*

<u>**Loading your kits individually:**</u> from the SD Card

IMPORTANT – PLEASE READ.

This method of loading the kits preserves trigger and pad settings and helps:

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**

Option A: To load kits individually from your SD Card:

Note: Do not rename the Kit files. They must remain in the original TD0 format.

- **Step 1:** Insert your SD CARD into the TD-27 module.
- **Step 2:** Press **SYSTEM**, Use arrow keys or dial to select: **SD CARD**/ Press ENTER.
- **Step 3:** Select **1 KIT Load**. Press ENTER
- **Step 4:** Use up/down arrows and dial to specify settings.
- **Step 5:** Use the dial to scroll and select **Kit # 130 (thru 146)**

   NOTE: User Sample may or may not be checked – **(☐)**
   Don't worry about it, this pack uses minimal samples.
   Sample kits will automatically display a check.

- **Step 6:** Arrow down and select a "USER" load destination kit (this kit will be overwritten)
- **Step 7:** Press **LOAD**).
- **Step 8:** Arrow Right, and Press **ENTER** to load Kit.

Repeat Steps 4-8 until all kits you want are completed

Once complete – run an offset recalibration on your VH SERIES HI HAT. Helps align the Hi Hat config to the new kits

WORSHIP Kits File Description: See page iv of this manual for details

Option B: Loading your kits via the Backup TD0 file-

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 15/16)
Step 5: Use the turn dial to select **Bank 15 (named: WSHP3) or Bank 16 (named: WSHP4)**
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 15 / 16
If it says, Card Error /Data Error – Make sure your firmware is 2.0 or newer.

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" it's working! This will take about 1-2 minutes while all the sample data loads in.

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-TYPE
Snare:	PD-140DS
Tom(s) 1-3:	PD-TYPE
HH:	VH-TYPE
Ride:	CY-TYPE
CR1/2:	CY-TYPE
Aux 1-3:	PD or CY TYPE

Worship kits load individually and will not harm your trigger settings.

If not done so already: Remember to recalibrate your VH Series Hi Hat offset after loading.

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 custom, you should write down any/all of your pad types and/or custom trigger settings you may have adjusted. If you ever load new firmware, you will 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

Use **WORSHIP** with a live PA.

WORSHIP kits are optimized for STEREO/HEADPHONE Monitoring and LIVE output use. The settings below will help dial in your drum sound thru speakers.

Room/Overheads/MFX Reverbs: Avoid the larger hall settings when performing. 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 a smaller 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 snap is at 2 kHZ, and snare clarity is at 6.3 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 w/ DIRECT OUTS: 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, **WORSHIP** has been optimized to source the entire kit from the Master L/R outputs or route the KICK and SNARE from the 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:

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