



Wave & System Expansion Board for TD-10

TDW-1 with V-Cymbal Control

For Original TDW-1 Users

Read First

- **If you can erase the settings of your drum kits**

After performing the upgrade, use the Initialize operation.

Press [SETUP] - [F4 (UTIL)] - [F4 (INIT)] - [F4 (INIT)] - [F4 (EXEC)].

** ALL internal settings will be lost when you perform the Initialize operation.*

When you use the V-Cymbals, select the preset trigger bank 2.

1. Press [SETUP] - [F1 (TRIG)] - [F1 (BANK)].
2. Select the BANK "2" by turning the VALUE dial.

- **If you want to keep the settings of your drum kits**

You do not have to save your settings before performing the upgrade.

After performing the upgrade, recall trigger bank 2's factory presets.

1. Press [SETUP] - [F1 (TRIG)] - [TOOLS] - [F1 (COPY)].
2. Select the preset trigger bank 2, and the copy-destination trigger bank.
3. Press [F4 (COPY)] - [F4 (EXEC)].

Some instruments in preset drum kits are modified to correspond to the V-Cymbals.

Recall factory presets for individual drum kits if you need.

For more information on copying a kit, refer to TD-10 Owner's Manual; p. 137, right column.

** When upgrade the original TDW-1 to the "TDW-1 with V-Cymbal Control," ALL DATA will NOT be lost.*

** When install the TDW-1 on the non-expanded TD-10, ALL DATA will be lost.*

Loading the Program Data from the TDW-1

1. Turn on the power.

The "BOOT LOADER" screen appears.

| | |
|-------------|-----------|
| BOOT LOADER | Ver.1.00 |
| FLASH-ROM | EXP-BOARD |
| Ver.1.03 | Ver.2.50 |
| 97/06/30 | 00/12/18 |
| F1=CANCEL | F4=LOAD |

2. To perform the upgrade, press [F4 (LOAD)].
Do not turn the power off until completed.
3. The "Load Completed!" screen will appear. Now turn off the power.

| | |
|--------------------|----------|
| BOOT LOADER | Ver.1.00 |
| Ver.2.50 | |
| 00/12/18 | |
| Load Completed ! | |
| Please, POWER-OFF. | |

After performing the upgrade, the following screen appears when the TD-10 is powered up.



NOTE

The expanded TD-10 does not work without the expansion board TDW-1.

Added Functions

Completely supports the Roland V-Cymbals (CY-15R, CY-14C, CY-12H)

- Settings for V-Cymbal trigger types have been provided in trigger bank 2.
- Trigger types for the V-Cymbals (HH, CrA, CrB, RdA, RdB, CTR) have been added.
- Choke play, edge shot, and bell shot (CY-15R only) are all supported.
- CY-15R's three way triggering available
- Supports tonal changes relative to variances in strike position on the CY-15R and CY-14C.

Some instruments in preset drum kits are modified to correspond to the V-Cymbals

For example, the edge sound of the ride cymbal is set to AUX 1 RIM.

Trigger Types for the V-Cymbal

Trigger Bank and Trigger Type Settings

At the initial settings, the trigger bank provides settings for frequently used kit configurations. If you are using the V-cymbals, it is convenient to use bank 2. If using the PD-9s as cymbals, use bank 1.

Trigger Bank 1

For the Drum Kit using the PD-9s as cymbals

Trigger Bank 2

For the Drum Kit using the V-Cymbals

When using the CY-15R's Three Way Triggering

| INPUT | Trigger Type | Pad |
|----------|--------------|--------------------------|
| 1/KICK | K12 | KD-120 |
| 2/SNARE | 12A | PD-120 |
| 3/TOM1 | 10A | PD-100 |
| 4/TOM2 | 10A | PD-100 |
| 5/TOM3 | 12A | PD-120 |
| 6/TOM4 | 12A | PD-120 |
| 7/HI-HAT | HH | CY-12H |
| 8/CRASH1 | CrB | CY-14C |
| 9/CRASH2 | CrB | CY-14C |
| 10/RIDE | RdA | CY-15R (BOW/BELL OUTPUT) |
| 11/AUX1 | CTR | CY-15R (BOW/EDGE OUTPUT) |
| 12/AUX2 | CrB | CY-14C |

Trigger Bank 3

For the Drum Kit using the V-Cymbals

Trigger Bank 4

Setting that disables strike position detection



How to Load the Settings of Preset Trigger Banks

1. Press [SETUP] - [F1 (TRIG)] to display the trigger setting screen.
2. Press [TOOLS] - [F1 (COPY)] to display the trigger bank copy screen.
3. Select the copy-source preset trigger bank, and the copy-destination trigger bank, then press [F4] twice to have the copy be made.

When you use different pads, please change the trigger "type."

Procedure

Press [SETUP] - [F1 (TRIG)] - [F1 (BANK)].



For more information, refer to "Specifying the type of pad (TD-10 Owner's Manual; p. 108)."

Trigger Type List

| Trigger Type | Pad | Rim (Edge) | Position Detect |
|--------------|---|------------|-----------------|
| 12A | PD-120 | o | o |
| 12B | PD-120 | o | |
| 10A | PD-100 | | o |
| 10B | PD-100 | | |
| 8RA | PD-80R | o | o |
| 8RB | PD-80R | o | |
| 8 A | PD-80 | | o |
| 8 B | PD-80 | | |
| P9A | PD-9 | o | o |
| P9B | PD-9 | o | |
| P7A | PD-7 | o | o |
| P7B | PD-7 | o | |
| PD5 | PD-5 | | |
| K12 | KD-120 | | |
| K80 | KD-80 | | |
| KD7 | KD-7/KD-5 | | |
| HH | CY-12H | o | |
| CrA | CY-14C | o | o |
| CrB | CY-14C | o | |
| RdA | CY-15R | o | o |
| RdB | CY-15R | o | |
| CTR | CY-15R Control (for Three Way Triggering) | | |
| P 1 | Pad 1 | | |
| P 2 | Pad 2 | | |
| K 1 | Kick Pad 1 | | |
| K 2 | Kick Pad 2 | | |
| KIK | Kick (Acoustic Drum Trigger) | | |
| SNR | Snare (Acoustic Drum Trigger) | | |
| TOM | Tom-tom (Acoustic Drum Trigger) | | |
| FLR | Floor Tom (Acoustic Drum Trigger) | | |



The sound of the trigger input set to "CTR" will not be played for any purpose other than three way triggering.

About the V-Cymbal

Specify a trigger type that is appropriate for each type of V-Cymbal: the V-Cymbal Ride CY-15R, the V-Cymbal Crash CY-14C, or the V-Cymbal Hi-Hat CY-12H. (For example, set the CY-12H to "HH.")

* **Trigger parameters of TRIGGER BANK 2 at the factory defaults are set for using the V-Cymbals.**

Since V-Cymbals support edge shots, you can strike the edge to play the sound specified for the rim on the sound module. After playing the sound, you can also grasp the edge of the V-Cymbal to "choke" (halt) the sound. The CY-15R will vary the tone depending on the striking location on the bow.

For more information on V-Cymbal, refer to the V-Cymbal Owner's Manual.

Connections and Settings for the V-Cymbal Ride CY-15R

The CY-15R has two jacks; the way in which you connect to them will vary depending on how you intend to use the unit.

Using Bow Shot and Bell Shot

Connect the CY-15R's "BOW/BELL OUTPUT" to the TD-10's "TRIGGER INPUT 10/RIDE."

Set the trigger type of 10/RIDE to "RdA."

The sound normally heard when striking the rim can be sounded when the bell is struck.

Using Bow Shot and Edge Shot

Connect the CY-15R's "BOW/EDGE OUTPUT" to the TD-10's "TRIGGER INPUT 10/RIDE."

Set the trigger type of 10/RIDE to "RdA."

The sound normally heard when striking the rim can be sounded when the edge is struck.

Using Bow Shot, Bell Shot, and Edge Shot (Three Way Triggering)

When you connect the CY-15R and the TD-10 with two cables, you can play different sounds with the CY-15R's bow, bell, and edge (Three Way Triggering).

Connect the CY-15R's output as follows, then set the trigger types.

Example connections

| CY-15R OUTPUT | TD-10 TRIG INPUT | Pad Type |
|---------------|------------------|----------------------|
| BOW/BELL | 10/RIDE | RdA (CY-15R) |
| BOW/EDGE | 11/AUX 1 | CTR (CY-15R CONTROL) |



These are the TDW-1's initial settings for trigger bank 2.

| TRIGGER BANK 2 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|----------------|-----|-----|-----|-----|-----|-----|----|-----|-----|--------|--------|-----|
| | K12 | 12A | 10A | 10A | 12A | 12A | HH | CrB | 12A | 10 RdA | 11 CTR | CrB |

BANK BASIC ADVNCD OPTION

Correspondence between playing method and trigger input

| Playing Method | Trigger Input | Tones Sounded |
|----------------|---------------|------------------------|
| Bow Shot | 10/RIDE HEAD | Bow sound of the Ride |
| Bell Shot | 10/RIDE RIM | Bell sound of the Ride |
| Edge Shot | 11/AUX 1 RIM | Edge sound of the Ride |



If you use a single cable to connect the CY-15R, set the trigger type to "RdA" (or RdB). If the trigger type is set to "CTR" when the cymbal is connected via a single cable, the sound will not be played.



If you use two cables to connect the CY-15R to the TD-10 without using the "CTR" trigger type, striking the bow (or edge) will cause the sounds of both the bow and edge to be heard. Furthermore, trigger chase will not occur correctly.

If the trigger type is set to "CTR," the sound module will perform internal processing so that the sound of the pad set to "RdA" (or RdB) will not be played when a trigger signal is input to the trigger input set to "CTR." In order to use three way triggering, you must use the "CTR" and "RdA" trigger types together. The "CTR" trigger type cannot be used for any purpose other than three way triggering the CY-15R.



Only one CY-15R can be used with three way triggering. You must set "CTR" for only one trigger input. At this time, you must also select only one RdA (or RdB). If you set "CTR" for two or more pads, those other than the lowest-numbered trigger input will be displayed as "---" and will not function as "CTR" (nor will they sound).