DrumStation Rack ™
DRUM SYNTHESIZER MODULE

IMPORTANT - PLEASE READ

Adendum To Manual

Page 2 - Rear Panel Features
The Main Output socket marked 'Right (Mono)' does NOT deliver a mono signal.

Page 5 - Data Entry / Program Section
The Auto-trigger tempo is a Global setting and is therefore NOT saved with each program.

Page 9 - Polyphony
Due to specification changes, 8 drum sounds are the maximum that can be triggered simultaneously.

Page 12 - Tom Toms Section
Due to specification improvements, longer decay settings of the Tom Toms are now possible. Therefore, to reproduce the original decay setting of the TR808 Toms, set this knob to the 12 o'clock position and NOT the fully clockwise position as stated in the Manual.

Page 19 - Utility Mode Section

Function 7 - Assign Bank
Due to a change in operation of the MIDI Controllers, the Assign Bank feature is now a single function relating only to the four 'Pitch Assign Banks' (Item 2 in the Manual). Range now = 'AA' - 'Ab' - 'AC' - 'Ad'. Please ignore any reference to MIDI Controllers in this section.

Page 22 - MIDI Control Section

MIDI Controllers

The implementation of MIDI controllers has been changed from that stated in the Manual.
MIDI Controllers are now fixed or 'hard wired' to specific drum parameters / controls and cannot be altered. - see CHART 'B' over for full listing.

Using the BassStation Rack or Keyboard to change TR909 parameters

Some of the 'key' Utility Mode parameters (Distortion, Front Cut, Panning) for the TR909's Bass, Snare drum and HiHats have been setup to the same MIDI Controller numbers as on the BassStation's Filter and Envelope controls. You can now use the knobs on a BassStation to 'tweak' these parameters simultaneously in real-time - give it a go!

Page 23 - MIDI Control Section

MIDI Percussion Maps

The Low Toms of both TR808 and TR909 kits in the GM Map are assigned to MIDI keys **41 and 43** and not 45 as stated in the Manual. The following sounds are duplicated on multiple MIDI Key numbers in the GM map.

MIDI Key	Drum Sound
38 & 40	Snare Drum
42 & 44	Closed HiHat
41 & 43	Low Tom
45 & 47	Mid Tom
48 & 50	High Tom

Page 24 - Appendix

Troubleshooting Guide - Additional Advice

If a front panel control is set to respond to MIDI Velocity (see page 17) that control will appear as though it is not functioning when using the 'Audition' button to trigger the sound. Always check the sound via MIDI to verify the setup. The 'Audition' button is non velocity sensitive and will always transmit a 127 value.

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MIDI Controllers - Chart 'B' ■

TR808 Kit

Drum	Parameter	MIDI Controller
Bass Drum	Front cut	20
	Pan	21
	Distortion	22
	Tune	23
	Tone	24
	Decay	25
Snare Drum	Front cut	26
	Pan	27
	Distortion	28
	Tune	29
	Tone	30
	Snappy	31
Low Tom (1)	Front cut	32
	Pan	33
	Distortion	34
	Tune	35
	Decay	36
Mid Tom (2)	Front cut	37
	Pan	38
	Distortion	39
	Tune	40
	Decay	41
High Tom (3)	Front cut	42
	Pan	43
	Distortion	44
	Tune	45
	Decay	46
Rim Shot	Pan	47
	Tune	48
Hand Clap	Pan	49
	Tune	50
Cowbell	Pan	51
	Distortion	52
	Tune	53
Closed HiHat	Pan	54
	Tune	55
	Decay	56
Open HiHat	Pan	57
	Tune	58
	Decay	59
Crash Cymbal	Pan	60
	Tone	61
	Decay	62
Low Conga (1)	Pan	63
	Distortion	64
	Tune	65
Mid Conga (2)	Pan	66
	Distortion	67
	Tune	68
High Conga (3)	Pan	69
	Distortion	70
	Tune	71
Maracas	Pan	72
	Tune	73
Claves	Pan	74
	Tune	75

TR909 Kit

Drum	Parameter	MIDI Controller
Bass Drum	Front cut	105
	Pan	106
	Distortion	107
	Tune	76
	Attack	77
	Decay	78
Snare Drum	Front cut	108
	Pan	109
	Distortion	110
	Tune	79
	Tone	80
	Snappy	81
Low Tom (1)	Front cut	82
	Pan	83
	Distortion	84
	Tune	85
	Decay	86
Mid Tom (2)	Front cut	87
	Pan	88
	Distortion	89
	Tune	90
	Decay	91
High Tom (3)	Front cut	92
	Pan	93
	Distortion	94
	Tune	95
	Decay	96
Rim Shot	Pan	97
	Tune	98
Hand Clap	Pan	99
	Tune	100
Closed HiHat	Pan	111
	Distortion	101
	Tune	102
	Decay	103
Open HiHat	Pan	112
	Tune	104
	Decay	113
Crash Cymbal	Pan	114
	Tune	115
	Decay	116
Ride Cymbal	Pan	117
	Tune	118
	Decay	119

Novation 'Matched' Controllers

BassStation	Cont	DrumStation
Filter Frequency	105	TR909 Bass drum - Front Cut
Filter Resonance	106	TR909 Bass drum - Pan
Filter Mod Depth	107	TR909 Bass drum - Distortion
Env 1 Attack	108	TR909 Snare drum - Front Cut
Env 1 Decay	109	TR909 Snare drum - Pan
Env 1 Sustain*	110	TR909 Snare drum - Distortion
Env 1 Release*	111	TR909 Closed HiHat - Pan
Env 1 Velocity*	112	TR909 Open HiHat - Pan

* BassStation Rack version only. MIDI Controllers 114 to 118
(Env 2) will also affect the TR909 Cymbals.

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Factory Program List ▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬

Prog No.	Kit Name	Description
00	Classic TR909 V1	A typical setup of this instantly recognisable classic.
01	'FX' TR909/TR808	Key velocity Mod - 909 Snare. Note off recognised - 808 Bass/909 Crash
02	'Garage' 909/808	808/909 kits setup in the 'Garage' style.
03	Classic TR909 V2	Another setup of this timeless classic.
04	'Hardcore' TR909	Distortion effect on 808/909 Bass drums.
05	'Rave/Jungle' TR808	808 kit setup in the real 'Rave/Jungle' style.
06	Classic TR808 V1	Familiar setup of the classic TR808 which almost spells out...'Phil Collins'.
07	'Tune Me Up'	Key velocity Mod - Tuning on all 808/909 drums.
08	'Cut' TR909	Front Cut effect - Bass/Snare drums.
09	'Dynamic' TR909	Key velocity Mod - Decay, Attack etc. Bass, Snare, Toms, Hats & Cymbals.
10	'Cut' TR808	Front Cut effect - Bass/Snare drums.
11	'Grunge' TR909	Distortion - Bass, Snare & Toms.
12	'Dynamic' TR808	Key velocity Mod - Decay, Attack etc. Bass, Snare, Toms, Hats & Cymbals.
13	'Grunge' TR808	Distortion - Bass, Snare & Toms.
14	Classic TR909 V3	Another setup of this timeless classic.
15	'Power' TR909	Distortion - Bass, Snare & HiHats.
16	'Power' TR808	Distortion - Bass, Snare & HiHats.
17	'A Bit Off' TR909	Note off recognised - TR909 kit.
18	'A Bit Off' TR808	Note off recognised - TR808 kit.
19	'Velo' TR909	Key velocity Mod - Tuning HiHats & Cymbals.
20	'VeloDis' TR909	Key velocity Mod - Tuning on Bass drum with distortion.
21	'VeloTom' TR909	Key velocity Mod - Tuning on Tom Toms.
22	'VeloTom' TR808	Key velocity Mod - Tuning on Tom Toms.
23	Classic TR909 Ind.	Individual Outputs - 1= Bass 2= Snare 3= HiHats. Other sounds on Stereo.
24	Classic TR808 Ind.	Individual Outputs - 1= Bass 2= Snare 3= HiHats. Other sounds on Stereo.

NOTE : Factory programs 00 to 22 have their outputs set to the Left/Right Main Stereo Output.
Programs 23 and 24 are setup to demonstrate the Individual Outputs.

Demonstration Guide ▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬

Use this guide as the demo plays through to familiarise yourself with the various features of the DrumStation. The program number displayed on screen indicates the current position of the demo.

Part	Prog No.	Bars	Features
1	01	1 to 4	Velocity Mod of TR909 Snare - Tuning and Snappy controls. Note-off recognised on TR808 Bass drum/ TR909 Crash Cymbal.
2	02	4 to 12	'Garage' style demo of the classic TR808 & TR909 sounds.
3	03	12 to 18	Classic TR909 kit demo with dynamic tuning of Ride Cymbal and dynamic mod on Bass drum Front Cut/Tuning. TR808 Snare Panning.
4	04	18 to 26	'Hardcore' style demo with dynamic mod of Crash Cymbal Tune/Pan, Bass Distortion/Pan, Open HiHat Tuning/Pan opposite channels & Handclap Pan.
5	05	26 to 31	'Rave/Jungle' style demo using the classic TR808.
6	06	31 to Out	'Mr P. Collins' style demo using the classic TR808.

CHART 'A'

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MIDI Implementation Chart

Function		Transmitted	Recognised	Remarks
Basic Channel	Default Changed	1 - 16	1 - 16	Memorised
Mode	Default Messages Altered	x ************	4 x	
Note Number	True Voice	************ ************	12 - 120 12 - 120	
Velocity	Note ON Note OFF	x x	o v=1-127 o	
After Touch	Keys Ch's	x x	x x	
Pitch Bender		x	x	
Control Change	1	x	x	Modulation Wheel
	7	o	o	Volume
	20 to 119 inclusive	o	o	Parameter Control - see Chart 'B' for full listing
Program change True *		o 0 - 39 ***********	o 0 - 39	
System exclusive		o	o	Voice parameters
System :Clock Real Time		x	o	Start, Stop, Continue
Aux messages :Local ON/OFF :All Notes OFF :Active Sense :Reset		x x x x	x x x x	

Mode 1   : OMNI ON, POLY   Mode 3   : OMNI ON, MONO
Mode 2   : OMNI OFF, POLY   Mode 4   : OMNI OFF, MONO

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