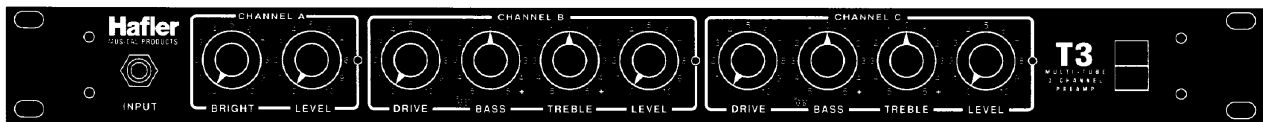


Hafler™

T3

MULTI-TUBE
3 CHANNEL
PREAMP



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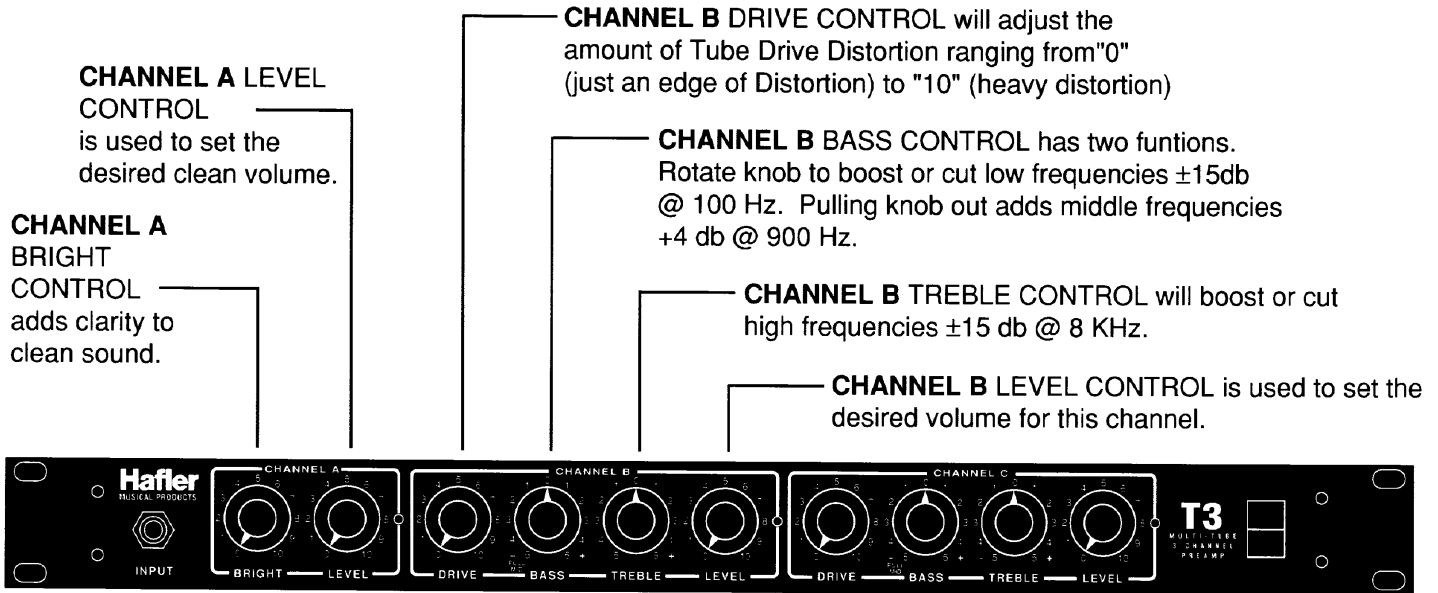
609 Myrtle N. W.
Grand Rapids, MI 49504
Phone 616-451-8416



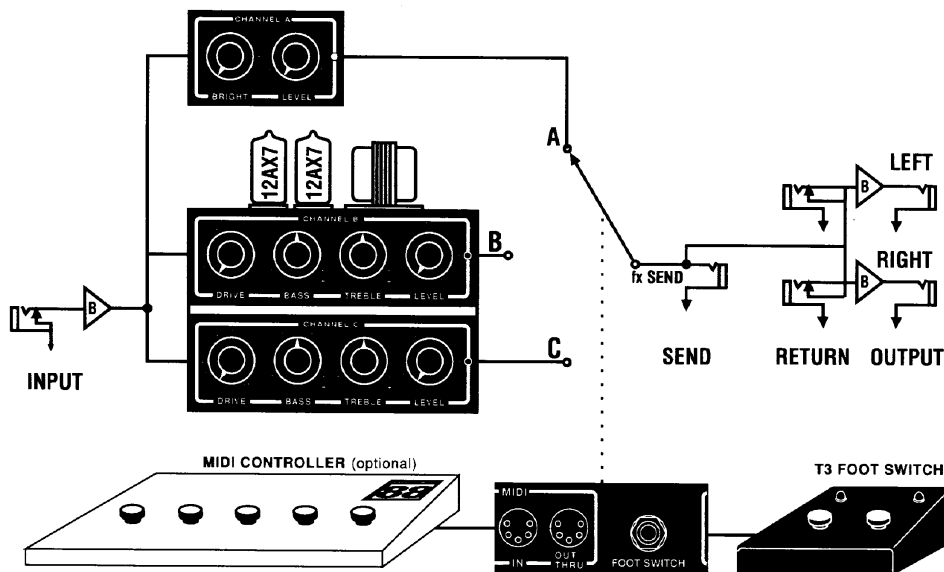
"WARNING" "TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE"

CAUTION: To reduce the risk of electric shock, do not remove cover, no user-serviceable parts inside. Refer servicing to qualified service personnel.

CONTROLS

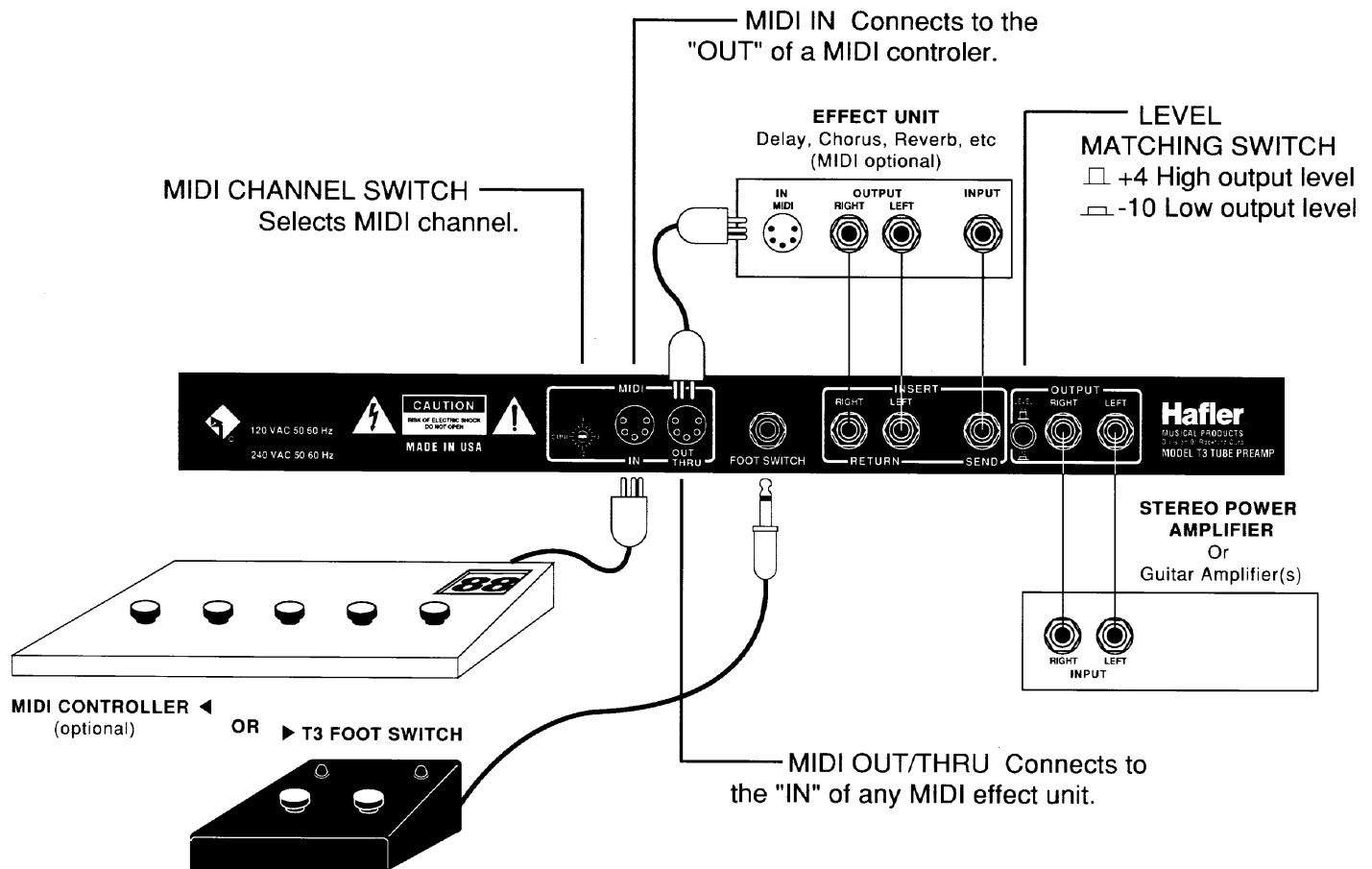


BLOCK DIAGRAM



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BASIC CONNECTIONS



T3 MIDI OPERATION

MIDI CHANNEL SWITCH

Set the channel switch to correspond to the channel number selected on the MIDI Controller or Effects Unit used with the T3. In the OMNI position the T3 will receive on all MIDI channels and send on channel 16.

MIDI IN

Connect a MIDI controller to "MIDI IN" and you can select any of the T3 channels via MIDI. See MIDI chart for program change numbers. All other MIDI program numbers will be ignored.

MIDI PROGRAM NUMBER	T3 CHANNEL SELECTED
1	A
2	B
3	C
MIDI CHART	

MIDI THRU

When a MIDI Controller is used to switch T3 channels the "OUT/THRU" connector becomes "MIDI THRU". This "MIDI THRU" is then connected to the "IN" of a MIDI Effect Unit allowing any messages from the Controller to pass through the T3 to the Effect Unit. For "THRU" mode to be active the T3 Footswitch must be unplugged when T3 power is turned on.

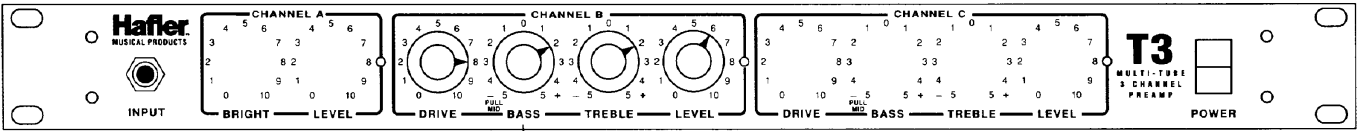
Note: To activate "THRU" mode when using T3 footswitch, hold both Footswitch buttons down while turning on T3 Power Switch.

MIDI OUT

The T3 "MIDI OUT" will send MIDI program change messages to a MIDI Effect Unit when used with the T3 Footswitch. Refer to MIDI Chart for corresponding T3 channel and MIDI program number. This Out Mode will be active only if the T3 footswitch is plugged in when the power is turned on.

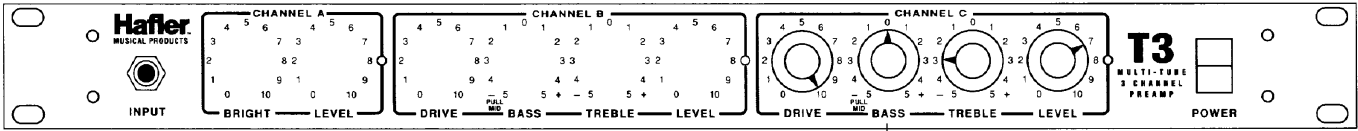
SOUND SETTINGS

"Vintage Crunch"



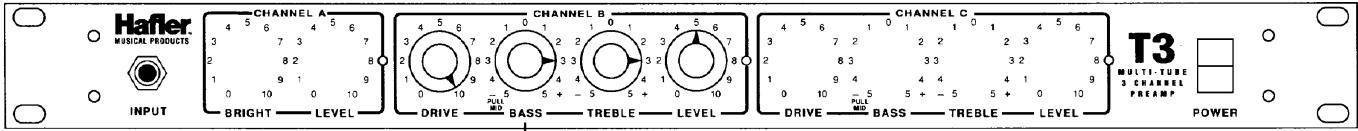
PULL

"Cliffs of Eric"



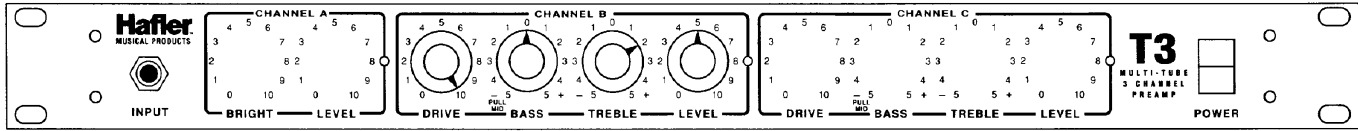
PULL

"Super Crunch"

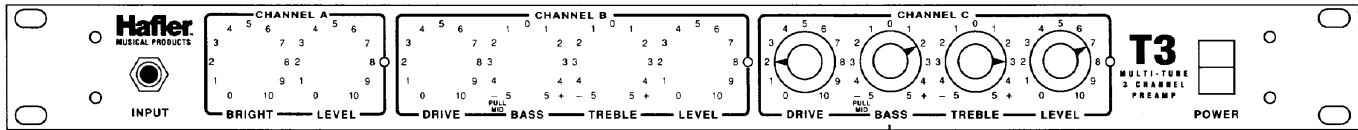


PULL

"Bright Edge"

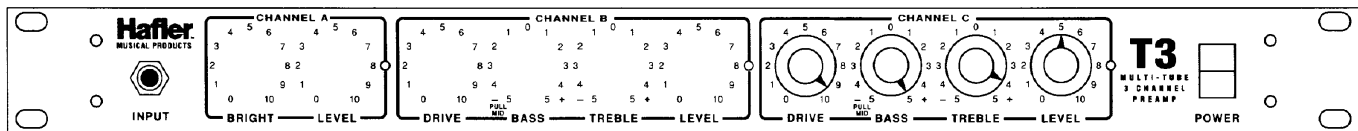


"British Blues"

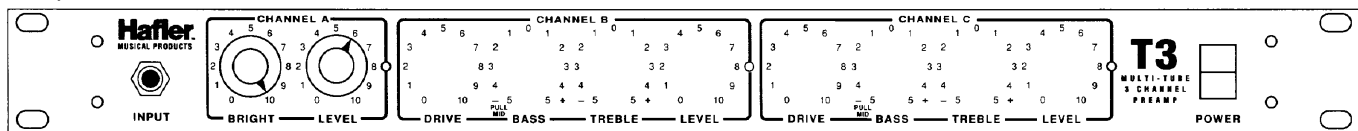


PULL

"Surfin With The T3"



"Crystal Clean"



NOTE: These sounds are general and should be used as a guide only. Your equipment and style of playing will also affect the sound. Please use these examples as a starting point to develop the sounds you want.

SPECIFICATIONS

Input Impedance:	1 meg ohm.
Stereo Outputs:	>+10 db into 1K ohm.
Max Output:	+30 db.
EQ Center Freqs:	Bright 9KHz, Bass 100Hz, Treble 8KHz, Pull Mid +4 db@ 900Hz.
Tubes:	2 - 12AX7A Low Noise.
AC Power:	100-130 or 190-260 VAC, 50/60 Hz @ 10 watts.
Measurements:	19" (48.26cm)W x 1 3/4" (4.45cm)H x 9" (22.86cm)D.
Net Weight:	8 lbs. (3.6 kg.).

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T3 MIDI Chart

**Use this chart if your external device sends program numbers 0-127.*

Channel Selected	Channel A	Channel B	Channel C
<i>MIDI Program</i>	0	1	2
<i>numbers from</i>	3	4	5
<i>external device</i>	6	7	8
	9	10	11
	12	13	14
	15	16	17
	18	19	20
	21	22	23
	24	25	26
	27	28	29
	30	31	32
	33	34	35
	36	37	38
	39	40	41
	42	43	44
	45	46	47
	48	49	50
	51	52	53
	54	55	56
	57	58	59
	60	61	62
	63	64	65
	66	67	68
	69	70	71
	72	73	74
	75	76	77
	78	79	80
	81	82	83
	84	85	86
	87	88	89
	90	91	92
	93	94	95
	96	97	98
	99	100	101
	102	103	104
	105	106	107
	108	109	110
	111	112	113
	114	115	116
	117	118	119
	120	121	122
	123	124	125
	126	127	

For use with software Rev. 3.1. This chart applies to MIDI IN only.

T3 MIDI Chart

**Use this chart if your external device sends program numbers 1-128.*

Channel Selected	Channel A	Channel B	Channel C
<i>MIDI Program</i>	1	2	3
<i>numbers from</i>	4	5	6
<i>external device</i>	7	8	9
	10	11	12
	13	14	15
	16	17	18
	19	20	21
	22	23	24
	25	26	27
	28	29	30
	31	32	33
	34	35	36
	37	38	39
	40	41	42
	43	44	45
	46	47	48
	49	50	51
	52	53	54
	55	56	57
	58	59	60
	61	62	63
	64	65	66
	67	68	69
	70	71	72
	73	74	75
	76	77	78
	79	80	81
	82	83	84
	85	86	87
	88	89	90
	91	92	93
	94	95	96
	97	98	99
	100	101	102
	103	104	105
	106	107	108
	109	110	111
	112	113	114
	115	116	117
	118	119	120
	121	122	123
	124	125	126
	127	128	

For use with software Rev. 3.1. This chart applies to MIDI IN only.